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American Foundrymen's Association

Organized May 12, 1896

CONSTITUTION *AND* MEMBERSHIP LIST



OFFICE OF THE ASSOCIATION
TWELFTH AND CHESTNUT STREETS
C L E V E L A N D , O H I O

1915

American Foundrymen's Association

Organized May 12, 1896

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*OFFICE OF THE ASSOCIATION
TWELFTH AND CHESTNUT STREETS
CLEVELAND, OHIO*

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IP 13 Nov. '15

Conventions of the American Foundrymen's Association

| Year | Convention City | President |
|------|------------------------|--|
| 1896 | Philadelphia * | Francis Schuman, Philadelphia, Pa. |
| 1897 | Detroit * | Francis Schuman, Philadelphia, Pa. |
| 1898 | Cincinnati * | Francis Schuman, Philadelphia, Pa. |
| 1899 | Pittsburgh * | C. S. Bell, Hillsboro, O. |
| 1900 | Chicago | J. S. Seaman, Pittsburgh, Pa. |
| 1901 | Buffalo | W. A. Jones, Chicago, Ill. |
| 1902 | Boston * | J. S. Sadlier, Springfield, O. |
| 1903 | Milwaukee | A. W. Walker, Boston, Mass. |
| 1904 | Indianapolis | Willis Brown, Buffalo, N. Y. |
| 1905 | New York | Chris. J. Wolff, Chicago, Ill. |
| 1906 | Cleveland | Thos. D. West, Cleveland, O. |
| 1907 | Philadelphia | W. H. McFadden, Ponca City, Okla. |
| 1908 | Toronto | Stanley G. Flagg, Jr., Philadelphia, Pa. |
| 1909 | Cincinnati | L. L. Anthes, Toronto, Ont. |
| 1910 | Detroit | Arthur T. Waterfall, Detroit, Mich. |
| 1911 | Pittsburgh | Maj. Jos. T. Speer, Pittsburgh, Pa. |
| 1912 | Buffalo | Maj. Jos. T. Speer, Pittsburgh, Pa. |
| 1913 | Chicago | H. D. Miles, Buffalo, N. Y. |
| 1914 | Chicago | Alfred E. Howell, Nashville, Tenn. |
| 1915 | Atlantic City | R. A. Bull, Granite City, Ill. |

*Deceased.

Vice Presidents

- Anthes, L. L. Toronto, Ont. 1906, 1907.
Anthony, E. W. Boston, Mass. 1904.
- Bair, Adam Milwaukee, Wis. 1902, 1903, 1905.
*Bauer, C. A. Springfield, O. 1898, 1899, 1901.
Beckett, J. A. Hoosick Falls, N. Y. . 1902, 1903.
Beckwith, A. K. Dowagiac, Mich. 1903, 1904, 1905.
*Bell, C. S. Hillsboro, O. 1897.
Best, T. J. Montreal, P. Q. 1896 to 1905.
Bole, Wm. A. Pittsburgh, Pa. 1910.
Buckingham, Geo. B. . Worcester, Mass. 1900.
Bull, R. A. Granite City, Ill. 1911, 1912, 1913.
Burr, J. W. Brooklyn, N. Y. 1906, 1907.
- Caley, C. J. New Britain, Conn. . 1906, 1907.
Carpenter, Henry A. . Providence, R. I. 1905, 1913, 1914.
Chadsey, S. B. Toronto, Ont. 1911 to 1914.
Chartrey, R. San Francisco, Cal. . 1898, 1899, 1900.
Clare, A. N. W. Preston, Ont. 1909, 1910.
Cluff, R. J. Toronto, Ont. 1908.
Colvin, T. H. Providence, R. I. 1901.
- Diller, H. E. Erie, Pa. 1904.
Drysdale, Alex. T. . . . Sheffield, Ala. 1914.
- Evans, Henry C. Chattanooga, Tenn. . 1896.
- Farnsworth, F. B. . . . New Haven, Conn. . . 1908 to 1912.
Ferguson, Wm. Chicago, Ill. 1900.
Field, H. E. Wheeling, W. Va. . . . 1907.
Findley, A. I. Cleveland, O. 1902.
Flagg, Stanley G., Jr. . Philadelphia, Pa. 1906.
Frank, I. N. Pittsburgh, Pa. 1897, 1898.
Fuller, Benj. D. Cleveland, O. 1914.

Vice Presidents (Continued)

- Gibby, F. W. Boston, Mass. 1896.
 Gilbert, Wm. Cincinnati, O. 1909, 1910.
 Gilmour, E. P. Milwaukee, Wis. 1901.
 Golden, J. P. Columbus, Ga. 1899 to 1907.

 Howell, Alfred E. Nashville, Tenn. 1909 to 1912.

 Jeffrey, J. W. Columbus, O. 1908.
 Johnston, S. T. Chicago, Ill. 1908.
 Jones, W. A. Chicago, Ill. 1899.

 Keep, W. J. Detroit, Mich. 1906.
 *Kissick, J. W. Columbus, Ga. 1908.

 Lanigan, J. F. Lawrence, Mass. 1902.
 Lombard, G. R. Augusta, Ga. 1911, 1912, 1913.

 Magee, John. Chelsea, Mass. 1903.
 *McLaren, John. Pittsburgh, Pa. 1903.
 Miles, H. D. Buffalo, N. Y. 1911.
 *Mills, John. Port Chester, N. Y. 1904.
 Moldenke, Dr. R. Pittsburgh, Pa. 1899.
 Mosher, W. S. Dallas, Tex. 1896 to 1900.

 Newcomb, C. L. Holyoke, Mass. 1898.

 Parry, Wm. H. Brooklyn, N. Y. 1908.
 Penton, John A. Detroit, Mich. 1900.
 Pero, J. P. East St. Louis, Ill. 1914.
 Prince, W. F. Elizabethport, N. J. 1901.
 Putnam, E. H. Moline, Ill. 1897, 1898.

 Richmond, T. L. Buffalo, N. Y. 1912.

 Scott, Irving. San Francisco, Cal. 1896.
 Sessions, W. E. Bristol, Conn. 1897.
 Sheriffs, T. J. Milwaukee, Wis. 1904, 1906 to 1914.

*Deceased.

Vice Presidents (Continued)

- Sleeth, S. D. Pittsburgh, Pa. 1901.
 *Slocum, A. V. Pittsburgh, Pa. 1905.
 Smith, Eugene. Chicago, Ill. 1901, 1909.
 Speer, Maj. Jos. T. . . . Pittsburgh, Pa. 1909.
 Spence, David. Chicago, Ill. 1905.
 Sweeney, J. M. Chicago, Ill. 1896.
- Taylor, Robt. G. Pittsburgh, Pa. 1896.
 *Thomas, D. J. Pittsburgh, Pa. 1904.
 Thomas, A. H. Columbus, O. 1914.
- Van Atta, H. New York, N. Y. 1905.
- Walker, A. W. Boston, Mass. 1899.
 Whiting, J. H. Chicago, Ill. 1906.
 Wilson, J. J. Detroit, Mich. 1910, 1913, 1914.
 Wolff, Chris. J. Chicago, Ill. 1897, 1902, 1903.
 Wood, Walter. Philadelphia, Pa. 1909 to 1913.
- Yagle, Wm. Pittsburgh, Pa. 1900.
- Zimmers, F. H. Pittsburgh, Pa. 1902.

Treasurers

- Howard Evans. Philadelphia, Pa. 1896 to 1900.
 Thos. D. West. Cleveland, O. 1901.
 Willis Brown. Buffalo, N. Y. 1902.
 Dr. Richard Moldenke. Watchung, N. J. 1903 to 1914.
 A. O. Backert. Cleveland, O. 1914 to date.

Secretaries

- John A. Penton. Cleveland, O. 1896 to 1899.
 Dr. Richard Moldenke. Watchung, N. J. 1900 to 1914.
 A. O. Backert. Cleveland, O. 1914 to date.

*Deceased.

Constitution of the American Foundrymen's Association

ARTICLE I

Name and Object

Section 1.—This Association shall be known as the American Foundrymen's Association.

Section 2.—The objects of this Association shall be the advancement of the interests of foundry operators, or all who are concerned in the casting of any kind of metal in sand, or loam molds, for any purpose; to collect for use of the Association all proper information connected with the foundry business; to exchange experience and encourage uniform customs and actions among foundrymen.

ARTICLE II

Membership

Section 1.—The membership of this Association shall consist of three classes, to be called, respectively, Active, Associate, and Honorary Members.

Section 2.—Any firm or corporation engaged in the production of castings of any kind, or any person so engaged as an employer, manager or superintendent, or as assistant to such, together with any others especially qualified may be elected to active membership.

Section 3.—Any person who is engaged in foundry work, such as molding foremen, core foremen, pattern foremen, chip-

ping foremen, chemists, etc., or any firm or corporation having a commercial interest in foundry operations though not engaged in the production of castings, or any officer or employee of such firm or corporation, may be elected to associate membership.

Section 4.—Any individual whose knowledge or services in connection with the objects of this Association, have made him preeminent among his fellows may be elected an Honorary Member.

Section 5.—Election to active and associate membership shall be vested in the Executive Board, members of which should indicate by letter ballot addressed to the Secretary their choice of applicants. Two negative ballots will reject an applicant.

Section 6.—Election to honorary membership shall be by a two-thirds vote of the members present at a regular meeting upon the recommendation of the Executive Board.

Section 7.—In addition to the rights and privileges common to Active Members, each person so enrolled shall receive gratis a bound volume of Transactions of the Association annually issued.

Section 8.—Associate Members shall have all rights and privileges of Active Members except the right to receive gratis the Transactions in bound volume form. Associate Members shall receive gratis pamphlet copies of all preprinted, original papers read at conventions.

Section 9.—Honorary Members will be entitled to all rights and privileges of Active and Associate Members, but shall not be assessed for any dues or payments of any kind.

ARTICLE III

Section 1.—The officers of this Association shall consist of a President, ten Vice Presidents, one of whom shall be named Senior Vice President, and a Secretary-Treasurer; who shall with the Past Presidents of this Association form its Executive Board.

ARTICLE IV

Section 1.—There shall be an annual meeting of this Association, the date and location of which shall be fixed by the Executive Board at least three months in advance of the said meeting.

Twenty-five members shall constitute a quorum of the Association.

Section 2.—Meetings of the Executive Board may be called by the President or by any three members of said Board, and five members shall constitute a quorum.

ARTICLE V

Section 1.—This constitution may be amended at any regular meeting of the Association by a two-thirds vote of the members present, provided the Secretary—through letter ballot submitted to all active members within 30 days after adjournment—shall secure in 30 days after the submission of said letter ballot to the members a ratification of an amendment by a majority of those returning letter ballot, signed by those voting.

By-Laws*Duties of Officers*

Section 1.—The duties of the President shall be to preside at the meetings of the Association and of the Executive Board, and to perform such other duties as usually devolve upon a presiding officer.

Section 2.—The Senior Vice President shall perform the duties of the President when the latter is absent or unable to perform the same, or in case of vacancy in the office of the President.

Section 3.—The duties of the Secretary shall be to keep a full and accurate record of the proceedings of the Association and Executive Board, to make an annual report at the annual

meeting, showing the number of active, associate and honorary members of the Association, the amount of dues collected, and the orders issued on the Treasurer, and he shall perform such other duties as may be assigned to him by the President or Executive Board.

Section 4.—The duties of the Treasurer shall be to take charge of all funds of the Association, and pay them out only upon the order of the Secretary, countersigned by the President; he shall report at the annual meeting his receipts and disbursements for the year, in detail; he shall give a bond, the amount of which is to be fixed by the Executive Board.

Section 5.—It shall be the duty of the Executive Board to manage the affairs of the Association to the best of their ability.

Membership

Section 6.—All applications for membership shall be made to the Secretary.

Section 7.—On the first day of each month the Secretary shall mail to each member of the Executive Board a list of applicants for membership. If he shall not receive, by the 15th day of the same month, the written protest of two of the members of the Executive Board to any application, he shall then enroll the said applicants as members of the Association, and notify them at once of their election.

Dues

Section 8.—The entrance fee for active members (effective May 1, 1915) shall be \$10.00, which must be submitted with the application. Dues for active members shall be \$10.00 per annum.

Section 9.—The entrance fee for associate members shall be \$5.00 (effective May 1, 1915) which must accompany application. Dues for associate members shall be \$5.00 per annum.

Section 10.—All dues shall be payable annually on July 1, and those who shall not have paid their annual dues in twelve months shall have their names dropped from the rolls upon notification by the Secretary.

Section 11.—Within 30 days after notification of election, those seeking membership will forward to the Secretary their annual dues or their election will be invalidated and their entrance fee will be forfeited.

Section 12.—The entrance fee shall cover continuous membership only, and those who allow their membership to lapse for twelve months will be required to again pay the regular entrance fee upon resuming active or associate membership.

Elections

Section 13.—All officers of the Association shall be elected by ballot by the active members of the Association at its annual meeting; a majority vote of those voting being necessary to elect.

Section 14.—All officers of the Association shall hold office for one year from the adjournment of the annual meeting at which they are elected, and until their successors shall have been elected. In the case of a vacancy occurring in any office during the year, the Executive Board shall fill the vacancy for the unexpired term.

Publications

Section 15.—The Executive Board shall have power to authorize the publication of papers and data relating to foundry operations and the activities of the Association at any time it may see fit, together with a faithful transcript of all proceedings at its annual conventions, the same to be issued in bound volume form. The Secretary shall be empowered to sell copies of the bound volume of Transactions at \$5.00 per volume.

Order of Business

Section 16.—The order of business to be observed at annual meetings shall be as follows:

(1) Reading of the minutes of the last meeting.

(2) Announcement by the President of special committees, as follows:

A committee of five to nominate officers for the following year.

A committee of three to audit the accounts of the Secretary-Treasurer.

A committee of five to report on papers to be presented to the Association.

(3) Report of officers and standing committees.

(4) Report of special committees.

(5) Unfinished business.

(6) New business.

(7) Election of officers.

Amendments

Section 17.—These by-laws may be amended at any regular meeting of the Association by a two-thirds vote of the members present, provided the Secretary—through letter ballot submitted to all active members within 30 days after adjournment—shall secure in 30 days after the submission of said letter ballot to the members a ratification of an amendment by a majority of those returning letter ballot, signed by those voting.

Rules of Order

Section 18.—Roberts' Parliamentary Rules of Order shall be recognized as authority by this Association.

Officers of the American Foundrymen's Association for 1914-15

President: R. A. BULL,

Commonwealth Steel Co., Granite City, Ill.

Senior Vice President: H. E. FIELD,

Wheeling Mold & Foundry Co., Wheeling, W. Va.

Vice President: HENRY A. CARPENTER,

General Fire Extinguisher Co., Providence, R. I.

Vice President: WALTER WOOD,

R. D. Wood & Co., Philadelphia, Pa.

Vice President: S. B. CHADSEY,

Massey-Harris Co., Ltd., Toronto, Can.

Vice President: T. W. SHERIFFS,

Sheriffs Mfg. Co., Milwaukee, Wis.

Vice President: J. P. PERO,

Missouri Malleable Iron Co., East St. Louis, Ill.

Vice President: ALEX T. DRYSDALE,

Sheffield Pipe & Foundry Co., Sheffield, Ala.

Vice President: JOSEPH J. WILSON,

Cadillac Motor Car Co., Detroit, Mich.

Vice President: A. H. THOMAS,

Buckeye Steel Casting Co., Columbus, O.

Vice President: BENJAMIN D. FULLER,

Westinghouse Electric & Mfg. Co., Cleveland, O.

Secretary-Treasurer: A. O. BACKERT,

Twelfth and Chestnut Streets, Cleveland, O.

Honorary Members

ELECTED

- 1910—ANTHES, L. L. Anthes Foundry, Limited, Toronto, Ont.
- 1905—BROWN, WILLIS. 534 Main Street, Buffalo, N. Y.
- 1909—FLAGG, STANLEY, G., JR. Stanley G. Flagg & Co., Philadelphia, Pa.
- 1914—HOWELL, ALFRED E. Phillips & Buttorff Mfg. Co., Nashville, Tenn.
- 1902—JONES, W. A. W. A. Jones Foundry & Machine Co., Chicago, Ill.
- 1908—MCFADDEN, W. H. Ponca City, Okla.
- 1914—MILES, H. D. Buffalo Foundry & Machine Co., Buffalo, N. Y.
- 1907—MOLDENKE, DR. RICHARD. Watchung, N. J.
- 1914—PENTON, JOHN A. Penton Publishing Co., Cleveland, O.
- 1901—SEAMAN, J. S. Seaman-Sleeth Co., Pittsburgh, Pa.
- 1912—SPEER MAJOR JOS. T. Pittsburgh Valve, Foundry & Construction Co., Pittsburgh, Pa.
- 1901—TURNER, PROF. THOMAS. The University, Birmingham, England.
- 1904—WALKER, A. W. Walker & Pratt Mfg. Co., Boston, Mass.
- 1911—WATERFALL, ARTHUR T. Russel Wheel & Foundry Co., Detroit, Mich.
- 1907—WEST, THOS. D. The West Steel Casting Co., Cleveland, O.
- 1906—WOLFF, CHRIS. J. L. Wolff Mfg. Co., Chicago, Ill.

Alphabetical List of Members

- 1896—ABENDROTH BROS., Port Chester, N. Y.
1907—ACME FOUNDRY Co., THE, Cleveland, O.
1908—ACME STEEL & MALLEABLE IRON WORKS, Buffalo, N. Y.
1912—ADRIAN FURNACE Co., Du Bois, Pa.
1907—ADRIANCE, PLATT & Co., Poughkeepsie, N. Y.
1896—AERMOTOR Co., Chicago, Ill.
1914—AIKAMA, Y., PRES., TOBATA IMONO KAISHA, LTD., Tobata
Machi, Tukuoka, Kew, Japan.
1913—ALABAMA Co., Birmingham, Ala.
1909—ALAMO IRON WORKS, San Antonio, Tex.
1907—ALAND, CHARLES M., James B. Clow & Sons Co., Coshoc-
ton, O.
1909—ALBERGER PUMP & CONDENSER Co., Newburgh, N. Y.
1908—ALLEN Co., CHAS. G., Barre, Mass.
1914—ALLEGHENY STEEL Co., Brackenridge, Pa.
1912—ALLING, EDWARD B., New Britain, Conn.
1914—ALLIS-CHALMERS MFG. Co., West Allis, Wis.
1914—ALTEN'S FOUNDRY & MACHINE WORKS, Lancaster, O.
1908—AMERICAN BLOWER Co., Detroit, Mich.
1901—AMERICAN BRAKE SHOE & FOUNDRY Co., Mahwah, N. J.
1914—AMERICAN BRIDGE Co., Ambridge, Pa.
1900—AMERICAN & BRITISH MFG. Co., Providence, R. I.
1912—AMERICAN CAR & FOUNDRY Co., Berwick, Pa.
1914—AMERICAN CLAY MACHINERY Co., Bucyrus, O. (Arnold
Lenz.)
1914—AMERICAN CLAY MACHINERY Co., Bucyrus, O. (R. O.
Perrott, Secretary.)
1907—AMERICAN CLAY MACHINERY Co., Willoughby, O.
1909—AMERICAN ENGINEERING Co., Philadelphia, Pa.
1906—AMERICAN HARDWARE CORPORATION, New Britain, Conn.
1910—AMERICAN HOIST & DERRICK Co., St. Paul, Minn.
1914—AMERICAN MALLEABLES Co., Lancaster, N. Y.
1914—AMERICAN MALLEABLE CASTINGS Co., Marion, O.
1914—AMERICAN PIN Co., Waterville, Conn.

- 1909—AMERICAN RADIATOR Co., Buffalo, N. Y.
 1907—AMERICAN SAW MILL MACHINERY Co., Hackettstown,
 N. J.
 1908—AMERICAN SEEDING MACHINE Co., Springfield, O.
 1914—AMERICAN STEEL FOUNDRIES, Indiana Harbor, Ind.
 1914—AMERICAN STEEL FOUNDRIES, Sharon, Pa.
 1906—AMERICAN STEEL FOUNDRIES, Chicago, Ill.
 1913—AMERICAN STEEL FOUNDRIES, Granite City, Ill.
 1911—AMERICAN VANADIUM Co., Pittsburgh, Pa.
 1908—AMERICAN WOOD WORKING MACHINERY Co., Rochester,
 N. Y.
 1909—AMHERST FOUNDRY Co., Amherst, Nova Scotia.
 1910—ANACONDA MINING Co. FOUNDRIES, Anaconda, Mont.
 1904—ANTHES FOUNDRY Co., LTD., Toronto, Ont., Can.
 1904—ANTHES, L. L., Anthes Foundry Co., Ltd., Winnipeg,
 Man., Can.
 1907—ARCADE MFG. Co., Freeport, Ill.
 1912—ATLANTIC RADIATOR Co., Huntingdon, Pa.
 1914—ATLAS FOUNDRY Co., Detroit, Mich.
- 1907—BACKERT, A. O., THE, FOUNDRY, Cleveland, O.
 1908—BAGLEY & SEWALL Co., Watertown, N. Y.
 1908—BAIRD & WEST, Detroit, Mich.
 1896—BARBOUR-STOCKWELL Co., Cambridge, Mass.
 1912—BARLOW FOUNDRY Co., Newark, N. J.
 1907—BARNETT FOUNDRY Co., OSCAR, Newark, N. J.
 1908—BARNUM, S. H., New Haven, Conn.
 1908—BARSTOW STOVE Co., Providence, R. I.
 1908—BARTLEY CRUCIBLE Co., JONATHAN, Trenton, N. J.
 1910—BASS FOUNDRY & MACHINE Co., Fort Wayne, Ind.
 1914—BAUER BROS. Co., Springfield, O.
 1909—BAY VIEW FOUNDRY Co., Sandusky, O.
 1908—BEATTY BROS., LTD., Fergus, Ont., Can.
 1914—BEAUMONT IRON WORKS Co., Beaumont, Tex.
 1914—BECK, SAMUEL J., Wilmington, Del.
 1896—BECKETT, JAMES A., Hoosick Falls, N. Y.
 1900—BECKWITH, P. D., ESTATE OF, Dowagiac, Mich.
 1907—BELL Co., C. S., Hillsboro, O.
 1907—BELLE CITY MALLEABLE IRON Co., Racine, Wis.

- 1908—BELLEVILLE STOVE & RANGE Co., Belleville, Ill.
 1914—BENJAMIN ELECTRIC MFG. Co., 120 S. Sangamon St., Chicago, Ill.
 1913—BENTON HARBOR MALLEABLE FOUNDRY Co., Benton Harbor, Mich.
 1914—BERGSTROM STOVE Co., Neenah, Wis.
 1914—BERLIN FOUNDRY & MACHINE Co., Berlin, N. H.
 1908—BERLIN MACHINE WORKS, Beloit, Wis.
 1914—BERRY IRON & STEEL Co., St. Joseph, Mo.
 1908—BERTRAM, JOHN, & SONS, LTD., Dundas, Ont., Can.
 1908—BEST FOUNDRY Co., Bedford, O.
 1908—BEST FOUNDRY Co., Pittsburgh, Pa.
 1896—BEST, T. J., Montreal, Que., Can.
 1897—BETHLEHEM FOUNDRY & MACHINE Co., South Bethlehem, Pa.
 1905—BETHLEHEM STEEL Co., South Bethlehem, Pa.
 1909—BETTENDORF AXLE Co., Bettendorf, Ia.
 1909—BIRKENSTEIN, S., & SONS, Chicago, Ill.
 1896—BIRMINGHAM IRON FOUNDRY, Derby, Conn.
 1912—BIRMINGHAM MACHINE & FOUNDRY Co., Birmingham, Ala.
 1907—BLUNDELL, FRED, Cleveland, O.
 1914—BOLLINGER-ANDREWS CONSTRUCTION Co., Pittsburgh, Pa.
 1914—BOND FOUNDRY & MACHINE Co., Mannheim, Pa.
 1914—BONNY-FLOYD Co., Columbus, O.
 1903—BOOTH, GARRETT & BLAIR, Philadelphia, Pa.
 1908—BOWMANVILLE FOUNDRY Co., Bowmanville, Ont., Can.
 1908—BRADLEY MFG. Co., DAVID, Bradley, Ill.
 1907—BRAKES, JAMES, Lyon Mountain, N. Y.
 1914—BRASS WORLD & PLATERS' GUIDE, Bridgeport, Conn.
 1913—BRAUN, JOHN, & SONS, Philadelphia, Pa.
 1912—BRIDGE & BEACH MFG. Co., St. Louis, Mo.
 1913—BRILLION IRON WORKS, Brillion, Wis.
 1896—BROADWAY IRON FOUNDRY Co., Cambridgeport, Mass.
 1906—BROWN, E. E., & Co., Philadelphia, Pa.
 1905—BROWN, WILLIS, 534 Main Street, Buffalo, N. Y.
 1896—BROWN & SHARPE MFG. Co., Providence, R. I.
 1914—BUCH FOUNDRY EQUIPMENT Co., Bridgeport, Pa.
 1912—BUCHANAN ELECTRIC STEEL Co., Buchanan, Mich.

- 1907—BUCKEYE ENGINE Co., Salem, O.
 1907—BUCKEYE FOUNDRY Co., Cincinnati, O.
 1911—BUCKEYE STEEL CASTINGS Co., Columbus, O.
 1912—BUCKS STOVE & RANGE Co., St. Louis, Mo.
 1913—BUCKWALTER STOVE Co., Royersford, Pa.
 1907—BUCYRUS Co., South Milwaukee, Wis.
 1914—BUFFALO CO-OPERATIVE STOVE Co., Buffalo, N. Y.
 1911—BUFFALO FORGE Co., Buffalo, N. Y.
 1905—BUFFALO FOUNDRY & MACHINE Co., Buffalo, N. Y.
 1912—BUFFALO SCALE Co., Buffalo, N. Y.
 1907—BULL, R. A., Granite City, Ill.
 1898—BURR & HOUSTON Co., Brooklyn, N. Y.
 1914—BUSCH-SULZER BROS. DIESEL ENGINE Co., St. Louis, Mo.
 1914—BYERLEIN, ERLE J., 321 Brown St., Saginaw, Mich.
- 1913—CADILLAC MOTOR CAR Co., Detroit, Mich.
 1914—CADILLAC MACHINE Co., Cadillac, Mich.
 1906—CAHILL IRON WORKS, Chattanooga, Tenn.
 1909—CALDWELL, H. W., & SON Co., Chicago, Ill.
 1914—CALDWELL-WATSON FOUNDRY & MACHINE Co., Birmingham, Ala.
- 1910—CAMP, E. N., & SONS Co., Moreland, Ga.
 1914—CAMPBELL, WYANT & CANNON FOUNDRY Co., Muskegon, Mich.
- 1904—CANADA FOUNDRY Co., Toronto, Can.
 1912—CANADA MACHINERY CORPORATION, LTD., Galt, Ont., Can.
- 1914—CANADIAN CAR & FOUNDRY Co., Montreal, Que., Can.
 1907—CANADIAN LOCOMOTIVE Co., LTD., Kingston, Ont., Can.
 1914—CANADIAN MALLEABLE IRON Co., Owen Sound, Ont., Can.
- 1912—CANADIAN RUMELY Co., LTD., Toronto, Ont., Can.
 1911—CANADIAN STEEL FOUNDRIES, Montreal, Que., Can.
 1913—CARBON STEEL CASTING Co., Lancaster, Pa.
 1914—CARBORUNDUM Co., Niagara Falls, N. Y.
 1913—CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.
 1914—CAROLINA MACHINERY Co., Asheville, N. C.
 1900—CARONDELET FOUNDRY Co., St. Louis, Mo.
 1904—CARR, STEWART R., & Co., Baltimore, Md.

- 1910—CARROLL FOUNDRY & MACHINE CO., Bucyrus, O.
 1908—CASE PLOW WORKS, J. I., Racine, Wis.
 1914—CASEY-HEDGES CO., Chattanooga, Tenn.
 1909—CASTINGS, Cleveland, O.
 1908—CENTRAL FOUNDRY CO., 90 West St., New York City.
 1914—CENTRAL FOUNDRY SUPPLY CO., Columbus, O.
 1909—CENTRAL IRON WORKS, Quincy, Ill.
 1910—CENTRAL RADIATOR CO., 3609 Broadway, New York City.
 1901—CHAIN BELT CO., Milwaukee, Wis.
 1908—CHAPMAN'S SONS CO., T. M., Old Town, Me.
 1911—CHAPMAN VALVE MFG. CO., Indian Orchard, Mass.
 1911—CHATTANOOGA ROOFING & FOUNDRY CO., Chattanooga,
 Tenn.
 1907—CHENEY, S., & SON, Manlius, N. Y.
 1914—CHERRY TREE IRON WORKS, Cherry Tree, Pa.
 1911—CHESTER STEEL CASTING CO., Chester, Pa.
 1908—CHICAGO HARDWARE FOUNDRY CO., North Chicago, Ill.
 1914—CHICAGO MALLEABLE CASTINGS CO., West Pullman, Chi-
 cago, Ill.
 1907—CHICAGO PNEUMATIC TOOL CO., Chicago, Ill.
 1913—CHICAGO STEEL FOUNDRY CO., Chicago, Ill.
 1908—CHISHOLM & MOORE MFG. CO., Cleveland, O.
 1906—CITY FOUNDRY CO., Cleveland, O.
 1908—CLARE BROS. & CO., Preston, Ont., Can.
 1908—CLARK BROS. CO., Belmont, N. Y.
 1912—CLARKSVILLE FOUNDRY & MACHINE WORKS, Clarksville,
 Tenn.
 1900—CLINTON IRON & STEEL CO., Pittsburgh, Pa.
 1907—CLOW, JAMES B., & SONS, Coshocton, O.
 1913—CLOW, JAMES B., & SONS, Chicago, Ill.
 1914—COCHRAN, HARRY R., Moline, Ill.
 1908—COCKSHUTT PLOW CO., Brantford, Ont., Can.
 1896—COLORADO FUEL & IRON CO., Pueblo, Col.
 1911—COLUMBIA STEEL CO., San Francisco, Cal.
 1907—COLUMBUS IRON & STEEL CO., Columbus, O.
 1907—COLUMBUS IRON WORKS, Columbus, Ga.
 1914—COLUMBUS MALLEABLE IRON CO., Columbus, O.
 1914—COLUMBUS STEEL CO., Portland, Ore.
 1896—COLVIN FOUNDRY CO., Providence, R. I.

- 1912—COMMONWEALTH STEEL CO., St. Louis, Mo.
 1912—COMPAGNIE DESJARDINS, E., St. Andre De Kamouraska,
 Que., Can.
 1914—CONGDON, EDWARD C., Duluth, Minn.
 1906—CONNERSVILLE BLOWER CO., Connerville, Ind.
 1912—COOPER BROS., Cortland, N. Y.
 1914—COOPER SADDLERY HARDWARE CO., H. W., Moline, Ill.
 1896—CO-OPERATIVE FOUNDRY CO., Rochester, N. Y.
 1911—COPP, H. G., DEERE & CO., Moline, Ill.
 1914—CORMACK, GEORGE, Plano, Ill.
 1914—CORSE, W. M., Buffalo, N. Y.
 1897—COX STOVE CO., ABRAM, Philadelphia, Pa.
 1896—CRANE CO., Chicago, Ill.
 1900—CRANE IRON WORKS, Catasauqua, Pa.
 1900—CRANE, WM. M., & CO., Jersey City, N. J.
 1907—CROWELL & MURRAY, Cleveland, O.
 1908—CROZIER, J. J., Kenneth Square, Pa.
 1914—CRUCIBLE STEEL CASTINGS CO., Cleveland, O.
 1909—CUMBERLAND FOUNDRY & MFG. CO., West Nashville,
 Tenn.
 1908—CURTIS PNEUMATIC MACHINERY CO., St. Louis, Mo.
 1914—CUTLER CO., GEORGE, South Bend, Ind.
- 1914—DAIN MFG. CO., OF IOWA, Ottumwa, Ia.
 1914—DALLAS FOUNDRY, Dallas, Tex.
 1900—DAMASCUS BRONZE CO., Allegheny, Pa.
 1907—DANVILLE FOUNDRY & MACHINE CO., Danville, Pa.
 1912—DARBYSIIRE-HARVIE IRON & MACHINE CO., El Paso, Tex.
 1912—DAVENPORT MACHINE & FOUNDRY CO., Davenport, Ia.
 1910—DAVENPORT & KEELER, New Britain, Conn.
 1914—DAYTON STEEL FOUNDRY CO., Dayton, O.
 1906—DAVIS, GEO. C., Philadelphia, Pa.
 1898—DAWES & MYLER, New Brighton, Pa.
 1907—DEBEVOISE-ANDERSON CO., 56 Liberty St., New York City.
 1908—DEMING CO., Salem, O.
 1914—DEMMLER, WM., & BROS., Kewanee, Ill.
 1912—DEMPSTER MILL MFG. CO., Beatrice, Neb.
 1912—DETROIT STEEL CASTINGS CO., Detroit, Mich.
 1912—DETROIT STOVE WORKS, Detroit, Mich.

- 1906—DETROIT TESTING LABORATORY CO., Detroit, Mich.
 1914—DEVLIN MFG. CO., THOS., Philadelphia, Pa.
 1907—DEWEY BROS., Goldsboro, N. C.
 1912—DEXTER FOLDER CO., Pearl River, N. Y.
 1914—DICK BROS. CO., Reading, Pa.
 1901—DILLER, H. E., Erie, Pa.
 1898—DODGE MFG. CO., Mishawaka, Ind.
 1908—DODGE MFG. CO., LTD., Toronto, Ont., Can.
 1914—DOMINION RADIATOR CO., LTD., Toronto, Ont., Can.
 1907—DOUGLAS, W. & B., Middletown, Conn.
 1909—DOVER FIRE BRICK CO., Cleveland, O.
 1914—DROLET, LA CIE F. X., Quebec, Que., Can.
 1912—DRYSDALE, ALEX. T., Sheffield, Ala.
 1907—DUQUESNE STEEL FOUNDRY CO., Pittsburgh, Pa.
- 1914—ELDER, ROBERT B., Chiksan Mining Co., Chiksan, Chosen,
 Korea.
- 1905—EMERSON CO., 30 Church St., New York City.
 1907—EMERSON-BRANTINGHAM CO., Columbus, Ind.
 1908—EMERSON LABORATORY, Springfield, Mass.
 1908—EMERSON, SAMUEL D. I., Pelham, N. Y.
 1912—EMPIRE FOUNDRY CO., New Brunswick, N. J.
 1914—EMPIRE FOUNDRY CO., Syracuse, N. Y.
 1914—ENGELHARD, A., Commonwealth Steel Co., Granite City,
 Ill.
- 1914—ENGINEERING WORKS, Van Buren, Ark.
 1904—ENGLAND, GEO., Braddock, Pa.
 1907—ENTERPRISE FOUNDRY CO., Detroit, Mich.
 1914—ENTERPRISE FOUNDRY CO., San Francisco, Cal.
 1896—ENTERPRISE MFG. CO., Philadelphia, Pa.
 1900—ERIE FOUNDRY CO., Erie, Pa.
 1914—ERIE FOUNDRY CO., Rochester, N. Y.
 1912—ERIE MALLEABLE IRON CO., Erie, Pa.
 1914—ESSEX FOUNDRY CO., Newark, N. J.
 1907—ESTATE STOVE CO., Hamilton, O.
 1914—EXETER BRASS WORKS, Exeter, N. H.
 1907—EYNON-EVANS MFG. CO., Philadelphia, Pa.
- 1911—FAIRBANKS CO., Binghamton, N. Y.

- 1912—FAIRBANKS Co., E. & T., St. Johnsbury, Vt.
 1910—FAIRBANKS, MORSE & Co., Beloit, Wis.
 1913—FAIRMOUNT MINING MACHINERY Co., Fairmount, W. Va.
 1914—FALK Co., Milwaukee, Wis.
 1914—FANNER MFG. Co., Cleveland, O.
 1914—FARQUHAR Co., LTD., A. B., York, Pa.
 1914—FARRELL-CHEEK STEEL FOUNDRY, Sandusky, O.
 1901—FARREL FOUNDRY & MACHINE Co., Ansonia, Conn.
 1910—FAVORITE STOVE & RANGE Co., Piqua, O.
 1909—FEDERAL FOUNDRY SUPPLY Co., Cleveland, O.
 1914—FEDERAL MALLEABLE Co., West Allis, Wis.
 1914—FELT & TARRANT MFG. Co., Chicago, Ill.
 1910—FERGUSON & LANGE FOUNDRY Co., Chicago, Ill.
 1899—FIELD, H. E., WHEELING MOLD & FOUNDRY Co., Wheeling, W. Va.
 1914—FILLMORE AVE. FOUNDRY & IRON WORKS, Buffalo, N. Y.
 1910—FINDLAY BROS., Carlton Place, Ont., Can.
 1896—FLAGG, STANLEY G., JR., Stanley G. Flagg & Co., Philadelphia, Pa.
 1896—FLAGG, STANLEY G., & Co., Philadelphia, Pa.
 1908—FLEMING, JAMES, Phoenix Foundry, St. John, N. B., Can.
 1908—FLEURY'S SONS, J., Aurora, Ont., Can.
 1913—FLORENCE IRON WORKS, Florence, N. J.
 1901—FORAN FOUNDRY & MFG. Co., Flemington, N. J.
 1914—FOSTER-ARMSTRONG Co., E. Rochester, N. Y.
 1912—FOUNDRY & MACHINE EXHIBITION Co., Chicago, Ill.
 1896—FOUNDRY, THE, Cleveland, O.
 1906—FORT PITT MALLEABLE IRON Co., McKees Rocks, Pa.
 1909—FORT PITT STEEL CASTINGS Co., McKeesport, Pa.
 1908—FOX'S SONS, BENJ., New York City.
 1914—FRANKLIN PARK FOUNDRY Co., Franklin Park, Ill.
 1911—FREESE, A. M., & Co., Galion, O.
 1900—FRENCH & HECHT, Davenport, Ia.
 1900—FRENCH & HECHT, Springfield, O.
 1898—FRICK Co., Waynesboro, Pa.
 1901—FROHMAN, E. D., S. Obermayer Co., Pittsburgh, Pa.
 1912—FROST & WOOD Co., LTD., Smith's Falls, Ont., Can.
 1904—FULLER, BENJ. D., Westinghouse Electric & Mfg. Co.,
 Cleveland, O.

- 1907—FULLER & WARREN Co., Troy, N. Y.
 1914—FULTON ENGINE WORKS, Los Angeles, Cal.
- 1910—GALION IRON WORKS Co., Galion, O.
 1907—GALT MALLEABLE IRON Co., Galt, Ont., Can.
 1913—GALT STOVE & FURNACE Co., LTD., Galt, Ont., Can.
 1896—GARDEN CITY SAND Co., Chicago, Ill.
 1914—GARDNER GENERAL FOUNDRY Co., Gardner, Mass.
 1908—GARDNER GOVERNOR Co., Quincy, Ill.
 1904—GARRISON FOUNDRY Co., A., Pittsburgh, Pa.
 1906—GENERAL ELECTRIC Co., Schenectady, N. Y.
 1912—GENERAL ELECTRIC Co., Pittsfield, Mass.
 1897—GENERAL ELECTRIC Co., West Lynn, Mass.
 1896—GENERAL FIRE EXTINGUISHER Co., Providence, R. I.
 1914—GENEVA FOUNDRY & MACHINE Co., Geneva, Ill.
 1914—GENEVA METAL WHEEL Co., Geneva, O.
 1914—GERMER STOVE Co., Erie, Pa.
 1896—GIBBY FOUNDRY Co., East Boston, Mass.
 1908—GIBNEY, JAMES W., Buffalo, N. Y.
 1908—GILBERT, GEO. McA., Carthage, N. Y.
 1910—GILBERT, L. D., Waynesboro, Pa.
 1903—GILSON MFG. Co., Port Washington, Wis.
 1909—GIRARD IRON Co., Girard, O.
 1907—GIRARD IRON WORKS, Philadelphia, Pa.
 1911—GLASS, JAMES, Wheeling Mold & Foundry Co., Wheeling, W. Va.
- 1907—GLEASON WORKS, Rochester, N. Y.
 1914—GLENN, HUGH, Crystal City, Mo.
 1913—GLOBE FOUNDRY & MACHINE Co., Globe, Ariz.
 1914—GLOBE MALLEABLE IRON & STEEL Co., Syracuse, N. Y.
 1898—GOLDEN'S FOUNDRY & MACHINE Co., Columbus, Ga.
 1908—GOLDIE & McCOLLOUGH Co., Galt, Ont., Can.
 1904—GOLDSCHMIDT THERMIT Co., New York City.
 1912—GOODISON THRESHER Co., LTD., J., Sarnia, Ont., Can.
 1907—GOODNOW FOUNDRY Co., L. H., Fitchburg, Mass.
 1898—GOULDS MFG. Co., Seneca Falls, N. Y.
 1907—GRACETON COKE Co., Graceton, Pa.
 1910—GRAHAM MFG. Co., JAMES, Newark, Cal.
 1914—GRAND RAPIDS FOUNDRY Co., Grand Rapids, Wis.

- 1906—GRAY & DUDLEY HARDWARE Co., Nashville, Tenn.
 1913—GRAY IRON FOUNDRY Co., Reading, Pa.
 1908—GREEN BAY IRON & BRASS FOUNDRY, Green Bay, Wis.
 1912—GREEN'S CAR WHEEL MFG. Co., St. Louis, Mo.
 1896—GREEN FUEL ECONOMIZER Co., Matteawan, N. Y.
 1914—GREENE FOUNDRY & FURNACE Co., Des Moines, Ia.
 1911—GREENLEE FOUNDRY Co., Chicago, Ill.
 1905—GRIFFIN WHEEL Co., Chicago, Ill.
 1911—GROTE MFG. Co., Evansville, Ind.
- 1914—HADFIELD, SIR ROBERT A., 22 Carlton House Terrace,
 London, Eng.
- 1914—HALL, JOHN HOWE, New York City.
 1910—HALL, J. W., San Luis Potosi, Mex.
 1909—HANNA, M. A., & Co., Pittsburgh, Pa.
 1904—HARBISON-WALKER REFRACTORIES Co., Pittsburgh, Pa.
 1907—HARRISON SAFETY BOILER WORKS, Philadelphia, Pa.
 1914—HARTWELL IRON WORKS, Houston, Tex.
 1906—HARTFORD LABORATORY, Hartford, Conn.
 1908—HAUCK MFG. Co., Brooklyn, N. Y.
 1910—HAVEN MALLEABLE CASTINGS Co., Cincinnati, O.
 1914—HAYES PUMP & PLANTER Co., Galva, Ill.
 1914—HEADFORD BROS. & HITCHINGS Co., Waterloo, Ia.
 1914—HEESEN BROS. Co., Tecumseh, Mich.
 1911—HELWICK FOUNDRY MACHINE Co., Fairmount, W. Va.
 1908—HENNESSY FOUNDRY Co., Springfield, O.
 1913—HERMANCE MACHINE Co., Williamsport, Pa.
 1914—HESS STEEL CASTINGS Co., Bridgeton, N. J.
 1903—HICKMAN, WILLIAMS & Co., Cincinnati, O.
 1897—HILL & GRIFFITH Co., Cincinnati, O.
 1914—HILL-BRUNNER FOUNDRY SUPPLY Co., Cincinnati, O.
 1907—HILLES & JONES Co., Wilmington, Del.
 1903—HILLMAN, J. H., & SON, Pittsburgh, Pa.
 1914—HOLT MFG. Co., Stockton, Cal.
 1914—HOMESTEAD VALVE MFG. Co., Homestead, Pa.
 1914—HOUSTON, GEORGE, East Moline, Ill.
 1909—HOWELL, ALFRED E., Phillips & Buttorff Mfg. Co., Nash-
 ville, Tenn.
 1906—HUNT Co., C. W., West New Brighton, N. Y.

- 1914—HUNT CO., GILBERT, Walla Walla, Wash.
 1910—HUNT-SPILLER MFG. CO., South Boston, Mass.
 1907—HUNTER MACHINE CO., JAMES, North Adams, Mass.
 1896—HYNDMAN, N. P., Pittsburgh, Pa.
 1914—IDEAL FURNACE CO., Milan, Mich.
- 1906—ILLINOIS MALLEABLE IRON CO., Chicago, Ill.
 1912—INDEPENDENT FOUNDRY CO., Portland, Ore.
 1914—INDIANA FOUNDRY CO., Indiana, Pa.
 1914—INDIANAPOLIS FOUNDRY CO., Indianapolis, Ind.
 1910—INDUSTRIAL WORKS, Bay City, Mich.
 1908—INGERSOLL-RAND CO., Philadelphia, Pa.
 1910—INTERNATIONAL CORRESPONDENCE SCHOOL, Scranton, Pa.
 1906—INTERNATIONAL HEATER CO., Utica, N. Y.
 1914—INTERNATIONAL MALLEABLE IRON CO., LTD., Guelph,
 Ont., Can.
- 1913—INTERSTATE CAR CO., Indianapolis, Ind.
 1905—INTERSTATE FOUNDRY CO., Cleveland, O.
 1905—INTERSTATE SAND CO., Zanesville, O.
 1914—IOWA STATE COLLEGE LIBRARY, Ames, Ia.
 1899—IRON AGE, New York City.
 1908—IRON CITY SANITARY MFG. CO., Pittsburgh, Pa.
- 1912—JACKSON CO., WM. H., 229 W. 28th St., New York City.
 1912—JAMIESON, C. C., DEERE & Co., Moline, Ill.
 1907—JAMIESON COAL & COKE CO., Pittsburgh, Pa.
 1896—JARECKI MFG. CO., Erie, Pa.
 1913—JENKINS BROS., LTD., Montreal, Que., Can.
 1914—JEWELL STEEL & MALLEABLE CO., Buffalo, N. Y.
 1908—JILES CO., JAMES, Pittsburgh, Pa.
 1914—JOHNSONBURG MACHINE CO., Johnsonburg, Pa.
 1912—JOHNSTON HARVESTER CO., Batavia, N. Y.
 1897—JONES, W. A., W. A. Jones Foundry & Machine Co., Chi-
 cago, Ill.
- 1897—JONES FOUNDRY & MACHINE CO., W. A., Chicago, Ill.
 1912—JONES HOLLOW WARE CO., Baltimore, Md.
 1914—JONES & LAUGHLIN STEEL CO., Gustav A. Bauman, Pitts-
 burgh, Pa.
 1914—JONES SAND CO., Columbus, O.

- 1905—JOSEPH, E. E., Corner Washington and Perry Sts., Buffalo, N. Y.
- 1904—JUSTICE, D. G. P., 43 Division St., Crafton, Pa.
- 1909—KALAMAZOO STOVE CO., Kalamazoo, Mich.
- 1914—KANSAS CITY HAY PRESS CO., Kansas City, Mo.
- 1913—KATZMANN, JAMES S., 14 Forest Ave., Everett, Mass.
- 1912—KELLER MFG. CO., Minneapolis, Minn.
- 1909—KELLOGG CO., M. W., Jersey City, N. J.
- 1898—KELLY, T. P., & CO., 544 W. 22d St., New York City.
- 1911—KENNEDY, ROBERT, Dept. Mechanical Engineering, University of Illinois, Champaign, Ill.
- 1906—KENNEDY'S FOUNDRY, P., Charles and Wells Sts., Baltimore, Md.
- 1908—KENNEDY, WM., & SONS, LTD., Owen Sound, Ont., Can.
- 1908—KERR, H. O., Walkerville, Ont., Can.
- 1914—KERR, JOHN T., Durham, N. C.
- 1914—KESSLER, FRANCIS, Winston-Salem, N. C.
- 1906—KEWANEE BOILER CO., Kewanee, Ill.
- 1912—KILPATRICK, ALEX., & SONS, St. Louis, Mo.
- 1896—KING, LTD., WARDEN, Montreal, Que., Can.
- 1913—KINNEAR MFG. CO., Columbus, O.
- 1909—KIRK SUPPLY CO., 6050 Jenkins Arcade, Pittsburgh, Pa.
- 1910—KIRK, DR. EDWARD, 938 N. 10th St., Philadelphia, Pa.
- 1896—KITANNING IRON & STEEL MFG. CO., Kittanning, Pa.
- 1914—KLINE HARDWARE CO., Allentown, Pa.
- 1907—KNICKERBACKER, JOHN, Waterford, N. Y.
- 1914—KNIGHT, MARK C., 814 Iona St., Lansing, Mich.
- 1903—KOHLEER CO., Sheboygan, Wis.
- 1908—KROESCHELL BROS. CO., 440 W. Erie St., Chicago, Ill.
- 1907—LA CROSSE PLOW CO., La Crosse, Wis.
- 1911—LACK MANUFACTURING CO., Paducah, Ky.
- 1907—LACONIA CAR WORKS CO., Laconia, N. H.
- 1906—LACY CO., JAS. J., Baltimore, Md.
- 1914—LAKE ERIE FOUNDRY CO., Buffalo, N. Y.
- 1912—LAKE SHORE ENGINE WORKS, Marquette, Mich.
- 1914—LAKESIDE FOUNDRY, Detroit, Mich.
- 1908—LAMB KNITTING MACHINE CO., Chicopee Falls, Mass.

- 1914—LANCASTER FOUNDRY CO., Lancaster, Pa.
 1907—LANDERS, FRARY & CLARK, New Britain, Conn.
 1898—LANE & BODLEY Co., Cincinnati, O.
 1900—LANE, H. M., 18 E. Piquette Ave., Detroit, Mich.
 1896—LANE MFG. Co., Montpelier, Vt.
 1914—LANG, R. F., 8-10 Bridge St., New York City.
 1914—LAWRENCEVILLE BRONZE Co., Pittsburgh, Pa.
 1896—LAWRENCE STEEL CASTING Co., Pittsburgh, Pa.
 1910—LAWTON Co., C. A., De Pere, Wis.
 1913—LEBANON STEEL Co., Lebanon, Pa.
 1914—LEHIGH FOUNDRY Co., Fullerton, Pa.
 1912—LENNOX FURNACE Co., Marshalltown, Ia.
 1911—LENOIR CAR WORKS, Lenoir City, Tenn.
 1914—LETHBRIDGE IRON WORKS Co., LTD., Lethbridge, Alta.,
 Can.
 1914—LEVERING BROS., Baltimore, Md.
 1914—LEWIS, C. B., 4929 McPherson St., St. Louis, Mo.
 1914—LEWIS FOUNDRY Co., Toledo, O.
 1900—LEWIS FOUNDRY & MACHINE Co., Pittsburgh, Pa.
 1913—LIBERTY FOUNDRY Co., St. Louis, Mo.
 1905—LIDGERWOOD MFG. Co., Brooklyn, N. Y.
 1896—LINCOLN, GEO. H., & Co., South Boston, Mass.
 1900—LINDEMAN & HOVERSON Co., Milwaukee, Wis.
 1913—LINK BELT Co., Chicago, Ill.
 1910—LITTLE, J. W., 9 Penn St., Waynesboro, Pa.
 1896—LOBDELL CAR WHEEL Co., Wilmington, Del.
 1914—LODGE MANUFACTURING Co., South Pittsburgh, Tenn.
 1907—LOGAN, JOHN A., Mt. Oliver Sta., 303 Summit St., Pitts-
 burgh, Pa.
 1899—LOMBARD, GEO. R., Lombard Iron Works, Augusta, Ga.
 1910—LORD & BURNHAM Co., Irvington, N. Y.
 1914—LOUIS, C. E., 208 La Salle St., Chicago, Ill.
 1914—LUDLOW VALVE MFG. Co., Troy, N. Y.
 1914—LUFKIN FOUNDRY & MACHINE Co., Lufkin, Tex.
 1914—LUPTON'S SONS Co., DAVID, Philadelphia, Pa.

 1914—McCARTER, ALEXANDER, 27 Johnson Ave., Newark, N. J.
 1908—McCLARY MFG. Co., London, Ont., Can.
 1912—McCONWAY & TORLEY Co., Pittsburgh, Pa.

- 1914—McCORD & Co., Chicago, Ill.
 1896—McCORMICK Co., J. S., Pittsburgh, Pa.
 1908—McDOUGHALL & Co., LTD., Galt, Ont., Can.
 1912—McEWEN, H. A., Wali Iron Works, Ltd., New Liskeard,
 Ont., Can.
 1896—McFADDEN, W. H., Ponca City, Okla.
 1914—McFARLAND FOUNDRY & MACHINE Co., Trenton, N. J.
 1912—McGEE IRON & BRASS FOUNDRY Co., JAS., 51 6th St.,
 Long Island City, N. Y.
 1914—McKKAIG, WALLACE W., McKaig Machine, Foundry &
 Supply Co., Cumberland, Md.
 1900—McKKEEFREY & Co., Leetonia, O.
 1908—MACKINNON BOILER & MACHINE Co., Bay City, Mich.
 1914—McKKINNON, L. E., McKinnon Dash Co., St. Catharines,
 Ont., Can.
 1898—McLAGON FOUNDRY Co., New Haven, Conn.
 1911—McLLAIN, DAVID, 623 Goldsmith Bldg., Milwaukee, Wis.
 1907—McNAB & HARLIN MFG. Co., Paterson, N. J.
 1914—McNAMARA-KOSTER FOUNDRY Co., Indianapolis, Ind.
 1914—McNNAUGHTON GRATE BAR Co., Maryville, Tenn.
 1907—MADISON FOUNDRY Co., Cleveland, O.
 1912—MADCO FOUNDRY & MACHINE Co., Phoenixville, Pa.
 1896—MAGEE FURNACE Co., Chelsea, Mass.
 1908—MAHONING FOUNDRY Co., Youngstown, O.
 1914—MAJESTIC FURNACE & FOUNDRY Co., Huntington, Ind.
 1908—MAGIRL, P. H., Bloomington, Ill.
 1896—MALLEABLE IRON FITTINGS Co., Branford, Conn.
 1913—MALLEABLE IRON RANGE Co., Beaver Dam, Wis.
 1906—MANUFACTURERS FOUNDRY Co., Waterbury, Conn.
 1913—MARION MALLEABLE IRON WORKS, Marion, Ind.
 1912—MARION STEAM SHOVEL Co., Marion, O.
 1914—MARSHALL FOUNDRY Co., Pittsburgh, Pa.
 1914—MARSHALL FURNACE Co., Marshall, Mich.
 1914—MARTY FOUNDRY Co., INC., Meridian, Miss.
 1912—MARYLAND STEEL Co., Philadelphia, Pa.
 1908—MASSEY-HARRIS Co., LTD., Toronto, Ont., Can.
 1911—MATERNE MFG. Co., St. Louis, Mo.
 1914—MAXWELL, DAVID, & SONS, St. Mary's, Ont., Can.
 1911—MEADVILLE MALLEABLE IRON Co., Meadville, Pa.

- 1912—MEDINA FOUNDRY Co., Medina, O.
 1903—MESTA MACHINE Co., Pittsburgh, Pa.
 1914—METALLURGIC ENGINEERING Co., 53 W. Jackson Blvd.,
 Chicago, Ill.
 1907—METRIC METAL WORKS, Erie, Pa.
 1914—MIAMI FOUNDRY Co., Hamilton, O.
 1914—MICHIGAN GREY IRON CASTING Co., Detroit, Mich.
 1910—MICHIGAN MOTOR CASTINGS Co., Flint, Mich.
 1910—MICHIGAN STEEL CASTING Co., Detroit, Mich.
 1896—MICHIGAN STOVE Co., Detroit, Mich.
 1908—MIDLAND ENGINE WORKS, Midland, Ont., Can.
 1906—MIDLAND STEEL Co., Pittsburgh, Pa.
 1905—MILES, H. D., Buffalo Foundry & Machine Co., Buffalo,
 N. Y.
 1907—MILFORD IRON FOUNDRY Co., Milford, Mass.
 1904—MILLERS PRODUCTS Co., Chicago, Ill.
 1911—MINNEAPOLIS STEEL & MACHINERY Co., Minneapolis,
 Minn.
 1914—MISSISSIPPI FOUNDRY & MACHINE Co., Jackson, Miss.
 1912—MISSOURI MALLEABLE IRON Co., East St. Louis, Ill.
 1907—MODERN FOUNDRY Co., Oakley, O.
 1914—MODERN IRON WORKS, Quincy, Ill.
 1907—MOFFAT, J. K., Weston, Ont., Can.
 1911—MOHR, J. J., & SON, 210 Bullitt Bldg., Philadelphia, Pa.
 1896—MOLDENKE, RICHARD, Watchung, N. J.
 1907—MOLINE PLOW Co., Monitor Drill Branch, St. Louis Park,
 Minn.
 1908—MONARCH DRILL BRANCH, Moline, Ill.
 1914—MONARCH FOUNDRY Co., Detroit, Mich.
 1905—MONESSEN FOUNDRY Co., Monessen, Pa.
 1909—MONITOR STOVE & RANGE Co., Cincinnati, O.
 1910—MOONEY, J. F., 999 Delaware Ave., Columbus, O.
 1896—MOORE BROS. Co., Joliet, Ill.
 1909—MOORE, S. L., & SONS CORP., Elizabethport, N. J.
 1910—MORGAN ENGINEERING Co., Alliance, O.
 1912—MORRIS Co., I. P., Philadelphia, Pa.
 1913—MORRISON, WALTER L., E. M., Welland, Ont., Can.
 1912—MORSE, F. L., Morse Chain Co., Ithaca, N. Y.
 1896—MOTT Co., J. L., Trenton, N. J.

- 1904—MOUNT CARBON CO., Powellton, W. Va.
 1907—MUELLER, PHILIP, H. Mueller Mfg. Co., Decatur, Ill.
 1906—MULLEN, JOHN, & SON, 516 Franklin St., Shamokin, Pa.
 1906—MUMFORD MOLDING MACHINE CO., 30 Church St., New York City.
 1910—MUNNOCH, P., American Brake Shoe & Foundry Co., Mahwah, N. J.
 1908—MURPHY, M. F., American Locomotive Co., Schenectady, N. Y.
 1907—MURPHY IRON WORKS, Detroit, Mich.
 1912—MURRAY IRON WORKS CO., Burlington, Ia.
- 1908—N. & W. R. R., Roanoke, Va.
 1901—NATIONAL CAR WHEEL CO., Pittsburg, Pa.
 1914—NATIONAL FOUNDRY CO., Erie, Pa.
 1901—NATIONAL GEAR WHEEL CO., J. H. Nusser, Pittsburgh, Pa.
 1909—NATIONAL ROLL & FOUNDRY CO., Avonmore, Pa.
 1910—NATIONAL SUPPLY CO., Station B, Toledo, O.
 1913—NATIONAL TRANSIT SHOPS, Oil City, Pa.
 1900—NATIONAL TUBE CO., Kewanee, Ill.
 1914—NAVY YARD, Engineer Officer, Boston, Mass.
 1908—NELSON VALVE CO., Chestnut Hill, Philadelphia, Pa.
 1901—NEVADA ENGINEERING WORKS, Reno, Nev.
 1907—NEWBERRY CO., Monroe, N. Y.
 1907—NEWBURY, J. H., Goshen, N. Y.
 1896—NEW ENGLAND BUTT CO., Providence, R. I.
 1911—NEW HAVEN SAND BLAST CO., New Haven, Conn.
 1909—NEWPORT SAND BANK CO., Newport, Ky.
 1898—NEW YORK AIR BRAKE CO., Watertown, N. Y.
 1914—NIAGARA MACHINE & TOOL CO., Buffalo, N. Y.
 1906—NILES-BEMENT-POND CO., Philadelphia, Pa.
 1897—NILES TOOL WORKS, Hamilton, O.
 1914—NORDBERG MFG. CO., Milwaukee, Wis.
 1907—NORTH & JUDD MFG. CO., New Britain, Conn.
 1912—NORTHERN MALLEABLE IRON CO., St. Paul, Minn.
 1911—NORTON CO., Worcester, Mass.
 1914—NOVELTY IRON WORKS, Canton, O.
 1908—NOVO ENGINE CO., Lansing, Mich.

- 1914—O. K. STOVE & RANGE CO., Louisville, Ky.
 1907—OBER MANUFACTURING CO., Chagrin Falls, O.
 1909—OBERHELMAN FOUNDRY CO., J. A., Cincinnati, O.
 1896—OBERMAYER CO., S., Chicago, Ill.
 1912—OHIO FOUNDRY CO., Cleveland, O.
 1914—OHIO FOUNDRY & MFG. CO., Steubenville, O.
 1907—OHIO MALLEABLE IRON CO., Columbus, O.
 1914—OHIO STEEL FOUNDRY CO., Lima, O.
 1909—OIL WELL SUPPLY CO., Oil City, Pa.
 1911—OLIVE STOVE WORKS, Rochester, Pa.
 1910—ONTARIO MALLEABLE IRON CO., Oshawa, Ont., Can.
 1908—ONTARIO WIND ENGINE & PUMP CO., Toronto, Ont., Can.
 1912—ORBON STOVE & RANGE CO., Belleville, Ill.
 1899—ORMROD, JNO. G., Emaus, Pa.
 1907—OSBORN MFG. CO., Cleveland, O.
 1914—OTIS ELEVATOR CO., 26th St. and 11th Ave., New York
 City.
 1911—OTIS STEEL CO., Cleveland, O.
 1914—OXWELD ACETYLENE CO., Chicago, Ill.
- 1913—PACIFIC FOUNDRY CO., San Francisco, Cal.
 1907—PALMERS & DE MOOY FOUNDRY CO., Cleveland, O.
 1905—PANGBORN CORPORATION, Hagerstown, Md.
 1914—PARADISE, L. A., East Moline, Ill.
 1909—PARKER BROS. CO., LTD., Detroit, Mich.
 1909—PATCH, INC., A. H., Clarksville, Tenn.
 1898—PATTIN BROS. CO., Marietta, O.
 1896—PAXSON CO., J. W., Philadelphia, Pa.
 1914—PAYNE & JOUBERT MACHINE & FOUNDRY CO., Birming-
 ham, Ala.
 1908—PEASE FOUNDRY CO., LTD., Toronto, Ont., Can.
 1913—PEERLESS FOUNDRY, Hamilton, O.
 1912—PELZ, H. L., 509 S. Babcock Ave., Urbana, Ill.
 1913—PENDLETON, J. F., 403 S. Wright St., Champaign, Ill.
 1907—PENNSYLVANIA CASTING & MACHINE CO., Pittsburgh, Pa.
 1905—PENNSYLVANIA R. R. SHOPS, Altoona, Pa.
 1896—PENTON, JOHN A., Penton Bldg., Cleveland, O.
 1914—PERKINS, F. N., Arcade Mfg. Co., Freeport, Ill.
 1908—P. & R. SHOPS, Foundry Department, Reading, Pa.

- 1914—PETTIGREW FOUNDRY Co., Harvey, Ill.
 1909—PHILADELPHIA CHAPLET & MFG. Co., Wissahickon, Philadelphia, Pa.
 1914—PHILADELPHIA ROLL & MACHINE Co., Philadelphia, Pa.
 1909—PHILLIPS & BUTTORF MFG. Co., Nashville, Tenn.
 1900—PHILLIPS & McLAREN Co., Pittsburgh, Pa.
 1909—PICKANDS, BROWN & Co., Chicago, Ill.
 1896—PICKANDS, MATHER & Co., Cleveland, O.
 1912—PIEDMONT FOUNDRY & MACHINE Co., Piedmont, W. Va.
 1896—PILLING & CRANE, Philadelphia, Pa.
 1902—PITTSBURGH EMERY WHEEL Co., Pittsburgh, Pa.
 1914—PLATT IRON WORKS Co., Dayton, O.
 1914—POHLMAN FOUNDRY Co., Buffalo, N. Y.
 1914—POND MACH. & FOUNDRY Co., L. W., Worcester, Mass.
 1914—PORTLAND Co., Portland, Me.
 1909—PORTLAND STOVE FOUNDRY Co., Portland, Me.
 1914—POTTS, JOHN G., High Bridge, N. J.
 1902—POUGHKEEPSIE FOUNDRY & MACHINE Co., Poughkeepsie, N. Y.
 1914—PRATT & LETCHWORTH Co., LTD., Brantford, Ont., Can.
 1914—PRIME STEEL Co., Milwaukee, Wis.
 1914—PRESSED STEEL CAR Co., McKees Rocks, Pa.
 1911—PRIMOS CHEMICAL Co., Primos, Pa.
 1914—PRODUCTION ENGINEERING Co., Philadelphia, Pa.
 1914—PROVO FOUNDRY & MACH. Co., Provo, Utah.
 1914—PULASKI FOUNDRY & MACH. Co., Pulaski, Va.
 1906—PULASKI IRON Co., Philadelphia, Pa.
- 1914—QUIGLEY FURNACE & FOUNDRY Co., Springfield, Mass.
- 1914—RAILWAY MATERIALS Co., Chicago, Ill.
 1905—RARITAN COPPER WORKS, Perth Amboy, N. J.
 1906—RATHBONE, SARD & Co., Albany, N. Y.
 1912—READ MACHINERY Co., York, Pa.
 1914—READING-BAYONNE STEEL CASTING Co., Reading, Pa.
 1914—READING STOVE WORKS, Reading, Pa.
 1914—RECORD FOUNDRY & MACH. Co., Moncton, N. B., Can.
 1908—REDINGTON, PATRICK, 79 Perry St., Salem, O.
 1912—REED-PRENTICE Co., Worcester, Mass.

- 1912—REID GAS ENGINE Co., Jos., Oil City, Pa.
 1913—RICHARDSON & BOYNTON Co., Dover, N. J.
 1909—RICHMOND FOUNDRY & MFG. Co., INC., Richmond, Va.
 1908—RICHMOND RADIATOR Co., New York City.
 1910—RIVERSIDE IRON WORKS, Chicago, Ill.
 1914—RIVERSIDE STEEL CASTING Co., Newark, N. J.
 1907—ROBBINS & MYERS Co., Springfield, O.
 1907—ROBESON PROCESS Co., Pennington, N. J.
 1909—ROBINSON, LOUIS G., Harrison Bldg., Cincinnati, O.
 1910—ROCK ISLAND PLOW Co., Rock Island, Ill.
 1914—ROELLER FOUNDRY Co., Bay City, Mich.
 1896—ROGERS, BROWN & Co., Cincinnati, O.
 1912—RONCERAY, E., 9-11 Rue Des Envierges, Paris, France.
 1909—ROOT, P. H., Root-Heath Mfg. Co., Plymouth, O.
 1904—ROSEDALE FOUNDRY & MACHINE Co., Pittsburgh, Pa.
 1898—ROSS-MEEHAN FOUNDRY Co., Chattanooga, Tenn.
 1907—ROSS-TACONY CRUCIBLE Co., Philadelphia, Pa.
 1908—RUMELY Co., M., La Porte, Ind.
 1908—RUSSELL & Co., Massillon, O.
 1896—RUSSEL WHEEL & FOUNDRY Co., Detroit, Mich.
- 1896—ST. PAUL FOUNDRY Co., St. Paul, Minn.
 1909—SAND MIXING MACHINE Co., New York City.
 1907—SANDY HILL IRON & BRASS WORKS, Hudson Falls, N. Y.
 1914—SANITARY Co. OF AMERICA, Linfield, Pa.
 1901—SARGENT & Co., New Haven, Conn.
 1903—SAUNDERS & FRANKLIN, Providence, R. I.
 1912—SAWYER-MASSEY Co., LTD., Hamilton, Ont., Can.
 1906—SCHAUM & UHLINGER, INC., Philadelphia, Pa.
 1914—SCHMID, EMIL, Butler Car Wheel Co., Butler, Pa.
 1910—SCHREIBER, WM. A., 626 June St., Cincinnati, O.
 1908—SCHWARTZ, HENRY A., 542 Tibbs Ave., Indianapolis, Ind.
 1896—SEAMAN, J. S., Seaman-Sleeth Co., Pittsburgh, Pa.
 1896—SEAMAN-SLEETH Co., Pittsburgh, Pa.
 1914—SEDRO-WOOLLEY IRON WORKS, Sedro-Woolley, Wash.
 1906—SELLERS, WM., & Co., INC., Philadelphia, Pa.
 1912—SESSIONS FOUNDRY Co., Bristol, Conn.
 1910—SEAGER ENGINE WORKS, Lansing, Mich.
 1914—SHARPLESS SEPARATOR Co., West Chester, Pa.

- 1914—SHAW, J., Cartref, Kingswinford, nr. Dudley, England.
 1896—SHEPPARD, A., & Co., Philadelphia, Pa.
 1900—SHERIFFS MFG. CO., Milwaukee, Wis.
 1905—SILL STOVE WORKS, Rochester, N. Y.
 1913—SIMPSON HEATER CO., Newark, O.
 1899—SLY MFG. CO., W. W., Cleveland, O.
 1908—SMART MFG. CO., JAMES, Brockville, Ont., Can.
 1912—SMEDLEY STEAM PUMP CO., Dubuque, Ia.
 1914—SMITH, THOMAS H., Washington University, St. Louis, Mo.
 1908—SMITH CO., H. B., Westfield, Mass.
 1911—SMITH MFG. CO., A. P., East Orange, N. J.
 1902—SMITH & ANTHONY CO., Wakefield, Mass.
 1913—SMITH & SONS MFG. CO., Kansas City, Mo.
 1913—SMITH MFG. CO., PHILIP, Sidney, O.
 1914—SMITH & WATSON IRON WORKS, Portland, Ore.
 1897—SMITH'S FALLS MALLEABLE IRON CO., Smith's Falls, Ont., Can.
 1912—SNEAD & CO. IRON WORKS, INC., Jersey City, N. J.
 1912—SOMERVILLE IRON WORKS, Somerville, N. J.
 1899—SOUTHER ENGINEERING CO., HENRY, Hartford, Conn.
 1914—SOWERS MFG. CO., Buffalo, N. Y.
 1896—SPEER, JOS. T., Pittsburgh Valve Foundry & Construction Co., Pittsburgh, Pa.
 1914—SPERRY, D. R., & Co., Batavia, Ill.
 1914—SPILSBURY, H. G., Goldschmidt Thermit Co., Chicago, Ill.
 1914—SPOKANE ORNAMENTAL IRON & WIRE WORKS, Spokane, Wash.
 1896—SPRINGFIELD FACING CO., Springfield, Mass.
 1913—SPUCK IRON & FOUNDRY CO., St. Louis, Mo.
 1914—STANDARD CAR WHEEL CO., Cleveland, O.
 1914—STANDARD DRY KILN CO., Indianapolis, Ind.
 1906—STANDARD IDEAL CO., LTD., Port Hope, Ont., Can.
 1911—STANDARD LINSEED CO., Cleveland, O.
 1907—STANDARD MALLEABLE IRON CO., Muskegon, Mich.
 1914—STANDARD STEEL CASTINGS CO., Cleveland, O.
 1914—STANLEY, F. J., Commonwealth Steel Co., Granite City, Ill.
 1912—STANLEY WORKS, Bridgewater, Mass.
 1911—STARKE'S DIXIE PLOW WORKS, Richmond, Va.

- 1902—STEAD, J. E., Queen's Terrace, Middlesbrough, England.
 1914—STEARNS, E. C., & CO., INC., Syracuse, N. Y.
 1914—STEEL COMPANY OF CANADA, Hamilton, Ont., Can.
 1911—STEEL & RADIATION, LTD., Toronto, Ont., Can.
 1902—STEINWAY & SONS, Steinway, L. I., N. Y.
 1900—STERRIT-THOMAS Co., Pittsburgh, Pa.
 1908—STEVENS, FREDERIC B., Larned and 3d St., Detroit, Mich.
 1908—STEWART MFG. Co., LTD., JAS., Woodstock, Ont., Can.
 1909—STERLING WHEELBARROW Co., Milwaukee, Wis.
 1914—STOCKHAM PIPE & FITTINGS Co., Birmingham, Ala.
 1906—STRAIGHT LINE ENGINE Co., Syracuse, N. Y.
 1914—STRONG STEEL FOUNDRY Co., Buffalo, N. Y.
 1912—STUDEBAKER CORPORATION, South Bend, Ind.
 1899—STUPAKOFF, S. H., Mechanical Engineer, 545 Turret St.,
 Pittsburgh, Pa.
 1896—STURTEVANT Co., B. F., Hyde Park, Mass.
 1914—SUDBURY CONSTRUCTION & MFG. Co., Sudbury, Ont., Can.
 1907—SULLIVAN MACHINERY Co., Claremont, N. H.
 1908—SUPERIOR FOUNDRY Co., Cleveland, O.
 1914—SWASEY, H. M., 27 Worthington St., Pittsfield, Mass.
 1909—SWEET & DOYLE FOUNDRY & MACHINE Co., Green Island,
 N. Y.
 1908—SWETT IRON WORKS, A. L., Medina, N. Y.
 1906—SYMINGTON Co., T. H., Rochester, N. Y.
 1896—SYRACUSE CHILLED PLOW Co., Syracuse, N. Y.
- 1896—TABOR MFG. Co., Philadelphia, Pa.
 1907—TAYLOR-FORBES Co., LTD., Guelph, Ont., Can.
 1908—TAYLOR & Co., Morgan and Norman Aves., Brooklyn,
 N. Y.
 1908—TAYLOR Co., W. P., Buffalo, N. Y.
 1907—TAYLOR & FENN Co., Hartford, Conn.
 1911—TAYLOR-WHARTON IRON & STEEL Co., High Bridge, N. J.
 1896—TAYLOR-WILSON MFG. Co., McKees Rocks, Pa.
 1898—TENNESSEE COAL, IRON & RAILROAD Co., Birmingham,
 Ala.
 1914—TERRE HAUTE MALLEABLE & MFG. Co., Terre Haute, Ind.
 1912—THATCHER FURNACE Co., 110 Beekman St., New York
 City.

- 1911—TILGHMAN-BROOKSBANKS SAND BLAST Co., Philadelphia, Pa.
- 1911—TITANIUM ALLOY MFG. Co., Niagara Falls, N. Y.
- 1907—TITTLE, C. L., Blairsville, Pa.
- 1914—TOBATA IMONO KAISHA, LTD., Tobata Machi, Tokuoka, Kew, Japan.
- 1907—TOD Co., WILLIAM, Youngstown, O.
- 1912—TOLEDO STEEL CASTING Co., Toledo, O.
- 1914—TOMLINSON, T., & SON, Toronto, Ont., Can.
- 1911—TOPTON FOUNDRY & MACHINE Co., Tipton, Pa.
- 1900—TOUCEDA, ENRIQUE, Albany, N. Y.
- 1910—TREADWELL ENGINEERING Co., Easton, Pa.
- 1905—TRENTON MALLEABLE IRON Co., Trenton, N. J.
- 1912—TROPENAS CONVERTER Co., 50 Church St., New York City.
- 1901—TURNER, PROF. THOMAS, The University, Birmingham, Eng.
- 1905—TURNER & SEYMOUR MFG. Co., Torrington, Conn.
- 1909—UNION FOUNDRY Co., Anniston, Ala.
- 1907—UNION MANUFACTURING Co., New Britain, Conn.
- 1910—UNION STEAM PUMP Co., Battle Creek, Mich.
- 1896—UNION STOVE WORKS, Peekskill, N. Y.
- 1907—UNION STEEL CASTING Co., Pittsburgh, Pa.
- 1910—UNION SWITCH & SIGNAL Co., Swissvale, Pa.
- 1914—UNION TOOL Co., Torrance, Cal.
- 1896—UNITED ENGINEERING & FOUNDRY Co., Pittsburgh, Pa.
- 1896—UNITED ENGINEERING & FOUNDRY Co., Lloyd-Booth Co., Dept., Youngstown, O.
- 1908—UNITED IRON WORKS Co., Springfield, Mo.
- 1914—U. S. CAST IRON PIPE & FOUNDRY Co., Anniston, Ala.
- 1909—U. S. CAST IRON & PIPE Co., Bessemer, Ala.
- 1913—U. S. CAST IRON PIPE & FOUNDRY Co., Burlington, N. J.
- 1906—U. S. GRAPHITE Co., Saginaw, Mich.
- 1914—UNITED STATES MALLEABLE IRON Co., Toledo, O.
- 1914—UNITED STATES RADIATOR CORPORATION, Detroit, Mich.
- 1907—UNIVERSAL CASTER & FOUNDRY Co., Newark, N. J.
- 1911—UNIVERSITY OF KANSAS, Lawrence, Kan.
- 1906—UTICA HEATER Co., Utica, N. Y.

- 1911—VALLEY IRON WORKS Co., Appleton, Wis.
 1908—VANCOUVER ENGINE WORKS, LTD., Vancouver, B. C., Can.
 1907—VANDERMAN MFG. Co., Willimantic, Conn.
 1908—VERITY PLOW Co., LTD., Brantford, Ont., Can.
 1903—VIRGINIA IRON, COAL & COKE Co., Roanoke, Va.
 1914—VERMILION MALLEABLE IRON Co., Hoopeston, Ill.
 1909—VULCAN IRON WORKS, Wilkes-Barre, Pa.
 1907—VULCAN PLOW Co., Evansville, Ind.
- 1896—WALKER, A. W., Walker & Pratt Mfg. Co., Boston, Mass.
 1914—WALKER, ROBERT A., 1201 Park Bldg., Pittsburgh, Pa.
 1896—WALKER & PRATT MFG. Co., Watertown, Mass.
 1907—WALKER FOUNDRY Co., Erie, Pa.
 1914—WALLACE MACHINE & FOUNDRY Co., La Fayette, Ind.
 1907—WALWORTH MFG. Co., Boston, Mass.
 1912—WARREN COKE Co., M. H., St. Louis, Mo.
 1913—WARREN STEEL CASTING Co., St. Louis, Mo.
 1900—WARWICK IRON & STEEL Co., Pottstown, Pa.
 1912—WATERBURY CASTING Co., Waterbury, Conn.
 1896—WATERFALL, ARTHUR T., Russell Wheel & Foundry Co.,
 Detroit, Mich.
- 1908—WATROUS ENGINE Co., LTD., Brantford, Ont., Can.
 1914—WAUKESHA MALLEABLE IRON Co., Waukesha, Wis.
 1909—WEBSTER MFG. Co., Tiffin, O.
 1912—WEIR STOVE Co., Taunton, Mass.
 1914—WEISSENBURGER, G. E., 1 Livingston Ave., Yonkers, N. Y.
 1907—WENTWORTH INSTITUTE, Boston, Mass.
 1914—WERNER & PFLEIDERER Co., Saginaw S. W., Mich.
 1914—WEST MICHIGAN STEEL FOUNDRY, Muskegon, Mich.
 1908—WEST SIDE FOUNDRY Co., Troy, N. Y.
 1908—WEST STEEL CASTING Co., Cleveland, O.
 1896—WEST, THOS. D., West Steel Casting Co., Cleveland, O.
 1896—WESTERN FOUNDRY Co., 3634 Kedzie Ave., Chicago, Ill.
 1908—WESTERN FOUNDRY Co., Wingham, Ont., Can.
 1914—WESTERN GAS CONSTRUCTION Co., Ft. Wayne, Ind.
 1913—WESTERN GAS ENGINE Co., Los Angeles, Cal.
 1912—WESTERN STEEL & IRON WORKS, Winnipeg, Man., Can.
 1896—WESTINGHOUSE AIR BRAKE Co., Pittsburgh, Pa.
 1909—WESTINGHOUSE ELECTRIC & MFG. Co., Pittsburgh, Pa.

- 1896—WESTINGHOUSE MACHINE CO., East Pittsburgh, Pa.
1906—WESTMORELAND MALLEABLE IRON CO., Westmoreland,
N. Y.
1913—WESTOVER, INC., JOHN, 1810 W St., Lincoln, Neb.
1911—WESTWICK, JOHN, & SON, 308 Elk St., Galena, Ill.
1908—WHITE CO., J. S., Pawtucket, R. I.
1911—WHITE, GEO., & SONS CO., LTD., London, Ont., Can.
1896—WHITEHEAD BROS. CO., 537 W. 27th St., New York City.
1896—WHITIN MACHINE CO., Whitinsville, Mass.
1896—WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill.
1914—WICKERSHAM, J. R., Reedsville, Pa.
1913—WILLARD, WM. G., O'Fallen, Ill.
1913—WILSON MACHINE & FOUNDRY CO., Pontiac, Mich.
1908—WILSON, J. J., 35 Chandler Ave., Detroit, Mich.
1914—WISCONSIN FOUNDRY & STEEL WORKS, Cedar Grove,
Wis.
1897—WOLFF, CHRIS. J., L. Wolff Mfg. Co., Chicago, Ill.
1914—WOLFF, HERBERT W., Care American Car & Foundry Co.,
St. Louis, Mo.
1897—WOLFF MFG. CO., Hoyne and Carrol Sts., Chicago, Ill.
1896—WOOD, WALTER, 400 Chestnut St., Philadelphia, Pa.
1914—WOODISON CO., E. J., Detroit, Mich.
1910—WOODRUFF & EDWARDS CO., Elgin, Ill.
1914—WOODSIDE BROS., Port Arthur, Ont., Can.
1903—WOODWARD IRON CO., Woodward, Ala.

1898—YALE & TOWNE MFG. CO., Stamford, Conn.
1912—YORK MFG. CO., York, Pa.

Geographical Distribution of Membership

United States

ALABAMA

Anniston

Union Foundry Co.
U. S. Cast Iron Pipe & Foundry Co.

Bessemer

U. S. Cast Iron Pipe & Foundry Co.

Birmingham

Alabama Co.
Birmingham Machine & Foundry Co.
Caldwell-Watson Foundry & Machine Co.
Payne-Joubert Machine & Foundry Co.
Stockham Pipe & Fittings Co.
Tennessee Coal, Iron & R. R. Co.

Sheffield

Drysdale, Alex T.

Woodward

Woodward Iron Co.

ARIZONA

Globe

Globe Foundry & Machine Co.

ARKANSAS

Van Buren

Engineering Works.

CALIFORNIA

Los Angeles

Fulton Engine Works
Western Gas Engine Co.

CALIFORNIA**San Francisco**

Enterprise Foundry Co.
Columbia Steel Co.
Pacific Foundry Co.

Newark

Graham, James, Mfg. Co.

Stockton

Holt Mfg. Co.

Torrance

Union Tool Co.

COLORADO**Denver**

Colorado Iron Works Co.

Pueblo

Colorado Fuel & Iron Co.

CONNECTICUT**Ansonia**

Farrel Foundry & Machine Co.

Branford

Malleable Iron Fittings Co.

Bridgeport

Brass World & Platers' Guide.

Bristol

Sessions Foundry Co.

Derby

Birmingham Iron Foundry.

Hartford

Hartford Laboratory.
Souther, Henry, Engineering Co.
Taylor & Fenn Co.

Middletown

Douglas, W. & B.

New Britain

Alling, Edward B.
American Hardware Corp.
Davenport & Keeler.
Landers, Frary & Clark.
North & Judd Mfg. Co.
Union Manufacturing Co.

CONNECTICUT

New Haven

Barnum, S. H., Co.
 New Haven Sand Blast Co.
 McLagon Foundry Co.
 Sargent & Co.

Stamford

Yale & Towne Mfg. Co.

Torrington

Turner & Seymour Mfg. Co.

Waterbury

Manufacturers' Foundry Co.
 Waterbury Castings Co.

Waterville

American Pin Co.

Willimantic

Vanderman Mfg. Co.

DELAWARE

Wilmington

Hilles & Jones Co., Foundry Dept.
 Lobdell Car Wheel Co.
 Pusey & Jones Co.

GEORGIA

Augusta

Lombard Iron Works.

Columbus

Columbus Iron Works.
 Golden's Foundry & Machine Co.

Moreland

Camp, E. N., & Sons Co., Inc.

ILLINOIS

Batavia

Sperry, D. R., & Co.

Belleville

Belleville Stove & Range Co.
 Orbon Stove & Range Co.

Bloomington

Ma Girl, P. H.

Bradley

Bradley, David, Mfg. Co.

ILLINOIS

Champaign

University of Illinois.
Pendleton, J. F., 403 S. Wright Street.

Chicago

Aeromotor Co.
American Steel Foundries.
Benjamin Electric Mfg. Co.
Birkenstein, S., & Sons.
Caldwell, F. C., A. W. Caldwell & Son Co.
Chicago Pneumatic Tool Co.
Chicago Steel Foundry Co.
Crane Co., The.
Felt & Tarrant Mfg. Co.
Ferguson & Lange Foundry Co.
Foundry & Machine Exhibition Co., Lewis Institute.
Garden City Sand Co.
Greenlee Foundry Co.
Griffin Wheel Co.
Illinois Malleable Iron Co.
Jones, W. A., W. A. Jones Foundry & Machine Co.
Jones, W. A., Foundry & Machine Co.
Kroeschell Bros. Co.
Link Belt Co.
Louis, C. E., 208 La Salle Street.
McCord & Co.
Metallurgic Engineering Co.
Millers Products Co.
Obermayer, S., Co.
Oxweld Acetylene Co.
Pickands-Brown & Co.
Railway Materials Co.
Riverside Iron Works.
Goldschmidt Thermit Co.
Western Foundry Co.
Wolff, Christ J., L. Wolff Mfg. Co.
Wolff, L., Mfg. Co.

Decatur

Mueller, H., Mfg. Co.

East Moline

Root & Van Dervoort Co.
Paradise, L. A.

East St. Louis

Missouri Malleable Iron Co.

ILLINOIS

Elgin

Woodruff & Edwards Co.

Franklin Park

Franklin Park Foundry Co.

Freeport

Arcade Mfg. Co.

Perkins, F. N.

Galena

Westwick, John, & Son.

Galva

Hayes Pump & Planter Co.

Geneva

Geneva Foundry & Machine Co.

Granite City

American Steel Foundries.

Bull, R. A., Commonwealth Steel Co.

Commonwealth Steel Co.

Engelhard, A., Commonwealth Steel Co.

Stanley, F. J., Commonwealth Steel Co.

Harvey

Pettigrew Foundry Co.

Whiting Foundry Equipment Co.

Hoopston

Vermilion Malleable Iron Co.

Joliet

Limbacker, C. B.

Moore Bros. Co.

Kewanee

Demmler, Wm., & Bros.

Kewanee Boiler Co.

National Tube Co.

Moline

Cochran, Harry R.

Cooper, H. W., Saddlery Hardware Mfg. Co.

Deere & Co.

Jamieson, C. C.

Moline Plow Co.

North Chicago

Chicago Hardware Foundry Co.

O'Fallen

Willard, Wm. G.

Plano

Independent Harvester Co.

ILLINOIS

Quincy

Central Iron Works.
Gardner Governor Co.
Modern Iron Works.

Rock Island

Rock Island Plow Co.

Urbana

Pelz, H. L.

West Pullman

Chicago Malleable Castings Co.

INDIANA

Columbus

Emerson-Brantingham Co.

Connersville

Connersville Blower Co.

Evansville

Grote Mfg. Co.
Vulcan Plow Co.

Ft. Wayne

Bass Foundry & Machine Co.
Western Gas Construction Co.

Huntington

Majestic Furnace & Foundry Co.

Indiana Harbor

American Steel Foundries.

Indianapolis

Indianapolis Foundry Co.
Inter-State Car Co.
McNamara-Koster Foundry Co.
Standard Dry Kiln Co.
Schwartz, Henry A., 542 Tibbs Avenue.

La Fayette

Wallace Machine & Foundry Co.

La Porte

Rumely, M., Co.

Marion

Marion Malleable Iron Works.

Mishawaka

Dodge Mfg. Co.

South Bend

Cutler, George, Co.
Studebaker Corp.

IOWA

Ames

Iowa State College Library.

Bettendorf

Bettendorf Axle Co.

Burlington

Murray Iron Works Co.

Davenport

Davenport Foundry & Machine Co.
French & Hecht.

Des Moines

Greene Foundry & Furnace Co.

Dubuque

Smedley Steam Pump Co.

Marshalltown

Lennox Furnace Co.

Ottumwa

Dain Mfg. Co. of Iowa.

Waterloo

Headford Bros. & Hitchings Co.

KANSAS

Lawrence

University of Kansas.

KENTUCKY

Louisville

O. K. Stove & Range Co.

Newport

Newport Sand Bank Co.

Paducah

Lack Mfg. Co.

MAINE

Old Town

Chapman's, T. M., Sons Co.

Portland

Portland Co.
Portland Stove Foundry Co.

MARYLAND

Baltimore

Kennedy's, P., Foundry.
Lacy, Jas. J., Co.
Jones Hollow Ware Co.
Stewart, R. Carr, & Co.
Levering Bros.

Cumberland

McKaig Machine Foundry & Supply Co.

Hagerstown

Pangborn Corporation.

MASSACHUSETTS

Barre

Allen Co., Chas. G.

Boston

Walker & Pratt Mfg. Co.
Walworth Mfg. Co.
Wentworth Institute.

Bridgewater

Stanley Works.

Cambridge

Barbour, Stockwell Co.

Cambridgeport

Broadway Iron Foundry Co.

Chelsea

Magee Furnace Co.

Chicopee Falls

Lamp Knitting Machine Co.

East Boston

Gibby Foundry Co.

Everett

Katzmann, James S.

Fitchburg

Goodnow, L. H., Foundry Co.

Gardner

Gardner General Foundry Co.

Hyde Park

Sturtevant, B. F., Co.

MASSACHUSETTS

Indian Orchard

Chapman Valve Mfg. Co.

Milford

Milford Iron Foundry.

North Adams

James Hunter Machine Co.

Pittsfield

General Electric Co.

Swasey, H. M.

South Boston

Lincoln, Geo. H., & Co.

Hunt Spiller Mfg. Co.

Springfield

Emerson Laboratory.

Springfield Facing Co.

Quigley Furnace & Foundry Co.

Taunton

Weir Stove Co.

Wakefield

Smith & Anthony Co.

Watertown

Walker & Pratt Mfg. Co.

Westfield

Smith, H. B., Co.

West Lynn

General Electric Co.

Whitinsville

Whitin Machine Co.

Worcester

Norton Co.

Pond, L. W., Machine & Foundry Co.

Reed-Prentice Co.

MICHIGAN

Battle Creek

Union Steam Pump Co.

Bay City

Industrial Works.
MacKinnon Boiler & Machine Co.
Roeller Foundry Co.

Benton Harbor

Benton Harbor Malleable Foundry Co.

Buchanan

Buchanan Electric Steel Co.

Cadillac

Cadillac Machine Co.

Detroit

American Blower Co.
Atlas Foundry Co.
Baird & West.
Cadillac Motor Car Co.
Enterprise Foundry Co.
Detroit Testing Laboratory.
Detroit Steel Casting Co.
Lakeside Foundry.
Lane, H. M., 18 Piquette Avenue, East.
Michigan Grey Iron Castings Co.
Michigan Stove Co.
Michigan Steel Casting Co.
Monarch Foundry Co.
Murphy Iron Works.
Parker Bros. Co., Ltd.
Russel Wheel & Foundry Co.
Stevens, Frederic B.
United States Radiator Corporation.
Detroit Stove Works.
Waterfall, Arthur T.
Wilson, J. J., 35 Chandler Avenue.
Woodison, E. J., Co.

Dowagiac

Beckwith, P. O., Estate.

Flint

Michigan Motor Castings Co.

MICHIGAN

Kalamazoo

Kalamazoo Stove Co.

Lansing

Novo Engine Co.

Knight, Mark C.

Seager Engine Works.

Marquette

Lake Shore Engine Works.

Marshall

Marshall Furnace Co.

Milan

Ideal Furnace Co.

Muskegon

Campbell, Wyant & Cannon Foundry Co.

Standard Malleable Iron Co.

West Michigan Steel Foundry.

Pontiac

Wilson Machine & Foundry Co.

Tecumseh

Heesen Bros. Co.

Saginaw

Byerlein, Erle J.

U. S. Graphite Co.

Werner & Pfeiderer Co.

MINNESOTA

Duluth

Congdon, Edward C.

Minneapolis

Keller Mfg. Co.

Minneapolis Steel & Machinery Co.

St. Louis Park

Moline Plow Co.

St. Paul

American Hoist & Derrick Co.

Northern Malleable Iron Co.

St. Paul Foundry Co.

MISSISSIPPI

Jackson

Mississippi Foundry & Machine Co.

Meridian

Marty Foundry Co., Inc.

MISSOURI

Crystal City

Glenn, Hugh.

Kansas City

Kansas City Hay Press Co.

Smith & Sons Mfg. Co.

Springfield

United Iron Works Co.

St. Joseph

Berry Iron & Steel Co.

St. Louis

American Car & Foundry Co.

Bridge & Beach Mfg. Co.

Buck's Stove & Range Co.

Busch-Sulzer Bros., Diesel Engine Co.

Carondelet Foundry Co.

Commonwealth Steel Co.

Curtis Pneumatic Machinery Co.

Green's Car Wheel Mfg. Co.

Kilpatrick, Alex, & Sons.

Lewis, C. B., McPherson Street.

Materne Mfg. Co.

Liberty Foundry Co.

Mellow, Wm., Liberty Foundry Co.

Smith, Thomas H., Washington University.

Spuck Iron & Foundry Co.

Warren, M. H., Coke Co.

Warren Steel Casting Co.

MONTANA

Anaconda

Anaconda Mining Co., Foundries.

NEBRASKA

Beatrice

Dempster Mill Mfg. Co.

Lincoln

Westover, John, Inc.

NEW HAMPSHIRE

Berlin

Berlin Foundry & Machine Co.

Claremont

Sullivan Machinery Co.

NEW HAMPSHIRE

Exeter

Exeter Brass Works.

Laconia

Laconia Car Works Co.

NEW JERSEY

Bridgeton

Hess Steel Casting Co.

Burlington

U. S. Cast Iron Pipe & Foundry Co.

Dover

Richardson & Boynton Co.

East Orange

Smith, A. P., Mfg. Co.

Elizabethport

Moore, S. L., & Sons Corp.

Flemington

Foran Foundry & Mfg. Co.

Florence

Florence Iron Works.

Hackettstown

American Saw Mill Machinery Co.

High Bridge

Potts, John G.

Taylor Wharton Iron & Steel Co.

Jersey City

Crane, Wm. M., Co.

Kellogg, M. W., Co.

Snead & Co. Iron Works, Inc.

Mahwah

American Brake Shoe & Foundry Co.

Pettis, C. D.

Newark

Barlow Foundry Co.

Oscar Barnett Foundry Co.

Essex Foundry Co.

McCarte, Alexander.

Riverside Steel Casting Co.

Universal Caster & Foundry Co.

NEW JERSEY

New Brunswick

Empire Foundry Co.

Paterson

McNab & Harlin Mfg. Co.

Pennington

Robeson Process Co.

Perth Amboy

Raritan Copper Works.

Somerville

Somerville Iron Works.

Trenton

Jonathan Bartley Crucible Co.

McFarland Foundry & Machine Co.

Mott, J. L., Co.

Trenton Malleable Iron Co.

Watchung

Moldenke, Richard, Dr.

NEW YORK

Albany

Rathbone, Sard & Co.

Touceda, Enrique.

Batavia

Johnston Harvester Co.

Belmont

Clark Bros. Co.

Binghamton

Fairbanks Co.

Brooklyn

Burr & Houston Co.

Hauck Mfg. Co.

Lidgerwood Mfg. Co.

Taylor & Co.

Buffalo

Acme Steel & Malleable Iron Works.

American Radiator Co.

Brown, Willis, 534 Main Street.

Buffalo Co-operative Stove.

Buffalo Forge Co.

Buffalo Foundry & Machine Co.

Buffalo Scale Co.

Corse, W. M., 106 Morris Avenue.

Fillmore Ave. Foundry & Iron Works.

Gibney, James W., 416 Woodward Avenue.

NEW YORK

Buffalo (Continued)

Jewell Steel & Malleable Co.
Joseph, E. E., Washington Street, cor. Perry.
Lake Erie Foundry Co.
Miles, H. D., Buffalo Foundry & Machine Co.
Niagara Machine & Tool Works.
Pohlman, J. W., Foundry Co.
Sowers Mfg. Co.
Strong Steel Foundry Co.
Taylor, W. P., Co.

Carthage

Gilbert, Geo. McA.

Cortland

Cooper Bros.

Goshen

Newbury, J. H.

Green Island

Sweet & Doyle Foundry & Machine Co.

Hoosick Falls

Beckett, Jas. A.

Hudson Falls

Sandy Hill Iron & Brass Works.

Irvington

Lord & Burnham Co.

Ithaca

Morse Chain Co.

Lancaster

American Malleables Co.

Long Island City

McGee, Jas., Iron & Brass Foundry Co.

Lyon Mountain

D. & H. R. R.

Manlius

Cheney, S. & Son.

Matteawan

Green Fuel Economizer Co.

Medina

Swett, A. L., Iron Works.

Monroe

Newberry Mfg. Co.

Newburg

Alberger Pump & Cond. Co.

NEW YORK

New York

Central Foundry Co.
 Central Radiator Co.
 Debevoise-Anderson Co.
 Emerson Co.
 Fox's, Benj., Sons.
 Goldschmidt Thermit Co.
 Iron Age, The.
 Hall, John Howe, 2 Rector Street.
 Jackson, Wm. H. Co.
 Kelly, T. P., & Co.
 Lang, R. F.
 Mumford Molding Machine Co.
 Ote's Elevator Co.
 Richmond Radiator Co.
 Sand Mixing Machine Co.
 Stoughton, Bradley, 29 W. 39th Street.
 Thatcher Furnace Co.
 Tropenas Converter Co.
 Whitehead Bros. Co.

Niagara Falls

Carborundum Co.
 Titanium Alloy Mfg. Co.

Pearl River

Dexter Folder Co.

Peekskill

Hill, Edward F.
 Union Stove Works.

Pelham

Emerson, Samuel D. I.

Port Chester

Abendroth Bros.

Poughkeepsie

Adriance, Platt & Co.
 Poughkeepsie Foundry & Machine Co.

Rochester

American Wood Working Machine Co.
 Cooperatitve Foundry Co.
 Erie Foundry Co.
 Foster-Armstrong Co.
 Gleason Works, Foundry Dept.
 Sill Stove Works.
 Symington, T. H., Co.

NEW YORK

Schenectady

American Locomotive Co.
General Electric Co.

Seneca Falls

Goulds Mfg. Co.

Steinway, L. I.

Steinway & Sons.

Syracuse

Empire Foundry Co.
Globe Malleable Iron & Steel Co.
Stearns, E. C., & Co., Inc.
Straight Line Engine Co.
Syracuse Chilled Plow Co.

Troy

Fuller & Warren Co.
Ludlow Valve Mfg. Co.
West Side Foundry Co.

Utica

International Heater Co.
Utica Heater Co.

Waterford

Knickerbacker, John.

Watertown

Bagley & Sewall Co.
New York Air Brake Co.

Westmoreland

Westmoreland Malleable Iron Co.

West New Brighton, L. I.

Hunt, C. W., Co.

Yonkers

Weissenburger, G. E.

NORTH CAROLINA

Asheville

Carolina Machinery Co.

Durham

Kerr, John T.

Goldsboro

Dewey Bros.

Winston-Salem

Kessler, Francis.

OHIO

Alliance

Morgan Engineering Co.

Bedford

Best Foundry Co.

Bucyrus

American Clay Machinery Co., R. O. Perrott, Sec'y.

American Clay Machinery Co., Arnold Lenz.

Carroll Foundry & Machine Co.

Canton

McLain, J. H., Co.

Novelty Iron Works.

Chagrin Falls

Ober Mfg. Co.

Cincinnati

Buckeye Foundry Co.

Haven Malleable Castings Co.

Hickman, Williams & Co.

Hill-Brunner Foundry Supply Co.

Hill & Griffith Co.

Lane & Bodley Co.

Monitor Stove & Range Co.

Oberhelman, J. A., Foundry Co.

Robinson, Louis G., Harrison Bldg.

Rogers, Brown & Co.

Schreiber, Wm. A.

Cleveland

Acme Foundry Co.

Backert, A. O., 12th and Chestnut Streets.

Blundell, Fred, Station B., Box 128.

Castings.

Chisholm & Moore Mfg. Co.

City Foundry Co.

Crowell & Murray.

Crucible Steel Castings Co.

Dover Fire Brick Co.

Fanner Mfg. Co.

Federal Foundry Supply Co.

Ferro Machine & Foundry Co.

Foundry, The.

Fuller, Benj. D., Westinghouse Electric & Mfg. Co.

Interstate Foundry Co.

Madison Foundry Co.

Ohio Foundry Co.

OHIO

Cleveland (Continued)

Osborn Mfg. Co.
Otis Steel Co.
Palmers & DeMooy Foundry Co.
Penton Publishing Co.
Penton, John A.
Pickands, Mather & Co.
Sly, W. W., Mfg. Co.
Standard Car Wheel Co.
Standard Linseed Co.
Standard Steel Casting Co.
Superior Foundry Co.
West, Thos. D., West Steel Casting Co.
West Steel Casting Co.

Columbus

Bonny-Floyd Co.
Buckeye Steel Castings Co.
Central Foundry Supply Co.
Columbus Iron & Steel Co.
Columbus Malleable Iron Co.
Jones Sand Co.
Kinnear Mfg. Co.
Mooney, J. F., 192 Neil Avenue.
Ohio Malleable Iron Co.

Coshocton

Aland, Chas. M., James B. Clow & Sons Co.
James B. Clow & Sons Co.

Dayton

Dayton Steel Foundry Co.
Joyce-Cridland Co.
Platt Iron Works Co.

Galion

Freese, A. M., & Co.
Galion Iron Works Co.

Geneva

Geneva Metal Wheel Co.

Girard

Girard Iron Co.

Hamilton

Estate Stove Co.
Miami Foundry Co.
Niles Tool Works.
Peerless Foundry.

Hillsboro**OHIO**

Bell, C. S., Co.

Lancaster

Alten's Foundry & Machine Works.

Leetonia

McKeefrey & Co.

Lima

Ohio Steel Foundry Co.

Marietta

Pattin Bros. Co.

Marion

American Malleable Castings Co.

Marion Steam Shovel Co.

Massillon

Russell & Co.

Medina

Medina Foundry Co.

Newark

Simpson Heater Co.

Oakley

Modern Foundry Co.

Piqua

Favorite Stove & Range Co.

Plymouth

Root-Heath Mfg. Co.

Salem

Buckeye Engine Co.

Deming Co.

Redington, Patrick.

Sandusky

Bay View Foundry Co.

Farrell-Cheek Foundry Co.

Sidney

Smith, Philip, Mfg. Co.

Springfield

American Seeding Machine Co.

Bauer Bros. Co.

French & Hecht.

Hennessy Foundry Co.

Robbins & Myers Co.

Steubenville

Ohio Foundry & Mfg. Co.

Tiffin

Webster Mfg. Co.

OHIO

Toledo

National Supply Co.
 Lewis Foundry Co.
 Toledo Steel Casting Co.
 United States Malleable Iron Co.

Willoughby

American Clay Machinery Co.

Youngstown

Mahoning Foundry Co.
 William Tod Co.
 United Engineering & Foundry Co., Lloyd Booth Dept.

Zanesville

Interstate Sand Co.

OKLAHOMA

Ponca City

McFadden, W. H.

OREGON

Portland

Columbus Steel Co.
 Independent Foundry Co.
 Smith & Watson Iron Works.

PENNSYLVANIA

Allegheny

Damascus Bronze Co.

Allentown

Kline Hardware Co.

Altoona

Kreuzpointner, P.
 Altoona Foundries.

Ambridge

American Bridge Co.

Avonmore

National Roll & Foundry Co.

Berwick

American Car & Foundry Co.

Blairsville

Tittle, C. L.

Brackenridge

Allegheny Steel Co.

PENNSYLVANIA

Braddock

Edgar Thompson Foundries.

Bridgeport

Buch Foundry Equipment Co.

Butler

Schmid, Emil.

Catasauqua

Crane Iron Works.

Cherry Tree

Cherry Tree Iron Works.

Chester

Chester Steel Casting Co.

Crafton

Justice, D. G. P.

Danville

Danville Foundry & Machine Co.

Du Bois

Adrian Furnace Co.

Easton

Treadwell Engineering Co.

Emaus

Ormrod, John G.

Erie

Erie Foundry Co.

Erie Malleable Iron Co.

General Electric Co., H. E. Diller, Chem. Engr.

Germer Stove Co.

Jarecki Mfg. Co.

Metric Metal Works.

National Foundry Co.

Walker Foundry Co.

Fullerton

Lehigh Foundry Co.

Graceton

Graceton Coke Co.

Homestead

Homestead Valve Mfg. Co.

Huntingdon

Atlantic Radiator Co.

Indiana

Indiana Foundry Co.

Johnsonburg

Johnsonburg Machine Co.

PENNSYLVANIA

Kenneth Square

Crozier, J. J.

Kittanning

Kittanning Iron & Steel Mfg. Co.

Lancaster

Carbon Steel Casting Co.

Lancaster Foundry Co.

Lebanon

Lebanon Steel Co.

Linfield

Sanitary Co. of America.

McKeesport

Ft. Pitt Steel Casting Co.

McKees Rocks

Ft. Pitt Malleable Iron Co.

Pressed Steel Car Co.

Taylor-Wilson Mfg. Co.

Mannheim

Bond Foundry & Machine Co.

Meadville

Meadville Malleable Iron Co.

Monessen

Monessen Foundry Co.

New Brighton

Dawes & Myler.

Oil City

National Transit Shops.

Oil Well Supply Co.

Reid, Jos., Gas Engine Co.

Philadelphia

American Engineering Co.

Booth, Garrett & Blair.

Braun, John, & Sons.

Brown, E. E., & Co.

Cox Stove Co.

Davis, Geo. C., 39 South Tenth Street.

Devlin, Thos., Mfg. Co.

Enterprise Mfg. Co.

Eynon-Evans Mfg. Co.

Flagg, Stanley G., Jr., Stanley S. Flagg & Co.

Flagg, Stanley G., & Co.

Girard Iron Works.

Harrison Safety Boiler Works.

PENNSYLVANIA

Philadelphia (Continued)

Ingersoll-Rand Co.
 Kirk, Edward, Dr., 938 North Tenth Street.
 David Lupton's Sons Co.
 Maryland Steel Co.
 Morris, I. P., Co.
 Mohn, J. J., & Son.
 Niles-Bement-Pond Co.
 Nelson Valve Co.
 Paxson, J. W., Co.
 Philadelphia Chaplet & Mfg. Co.
 Philadelphia Roll & Machine Co.
 Pilling & Crane.
 Production Engineering Co.
 Pulaski Iron Co.
 Ross-Tacony Crucible Co.
 Schaum & Uhlinger, Inc.
 Sellers, Wm., & Co., Inc.
 Sheppard, J. A., & Co.
 Tabor Mfg. Co.
 Tilghman-Brooksbanks Sand-Blast Co.
 Wood, Walter, 400 Chestnut Street.

Phoenixville

Madco Foundry & Machine Co.

Pittsburgh

American Vanadium Co.
 Bollinger-Andrews Construction Co.
 Carnegie Institute of Technology.
 Clinton Iron & Steel Co.
 Duquesne Steel Foundry Co.
 Frohman, E. D., S. Obermayer Co.
 Garrison, A., Foundry Co.
 Hanna, M. A., & Co.
 Harbison-Walker Refractories Co.
 Hillman, J. H., & Son.
 Hyndman, N. P., Washington Coal & Coke Co.
 Iron City Sanitary Mfg. Co.
 Jamieson Coal & Coke Co.
 James Jiles Co.
 Jones & Laughlin Steel Co.
 Kirk, Chas. L., 6050 Jenkins Arcade.
 Klaus, W. G., Best Mfg. Co.
 Lawrence Steel Casting Co.
 Lawrenceville Bronze Co.
 Lewis Foundry & Machine Co.
 Logan, John A., 303 Summit Street.

PENNSYLVANIA

Pittsburgh (Continued)

McConway & Torley Co.
 McCormick, J. S., Co.
 Marshall Foundry Co.
 Midland Steel Co.
 Mesta Machine Co.
 National Car Wheel Co.
 National Gear Wheel Foundry.
 Penna. Casting & Machine Co.
 Phillips & McLaren Co.
 Pittsburg Emery Wheel Co.
 Rosedale Foundry & Machine Co.
 Seaman, J. S., Seaman, Sleeth Co.
 Seaman, Sleeth Co.
 Speer, Jos. T., Maj., Pittsburgh Valve Foundry &
 Construction Co.
 Sterrit-Thomas Co.
 Stupakoff, S. H., 545 Turret Street.
 Union Steel Casting Co.
 United Engineering & Foundry Co.
 Walker, Robert A., The Iron Age, Park Bldg.
 Westinghouse Air Brake Co.
 Westinghouse Electric & Mfg. Co.
 Westinghouse Machine Co.

Pottstown

Warwick Iron & Steel Co.

Primos

Primos Chemical Co.

Reading

Dick, Chas. K., 109 South Ninth Street.
 Gray Iron Foundry Co.
 P. & R. Shops, Foundry Dept.
 Reading-Bayonne Steel Casting Co.
 Reading Stove Works.

Reedsville

Wickersham, J. R.

Rochester

Olive Stove Works.

Royersford

Buckwalter Stove Co.

Scranton

International Correspondence School.

Shamokin

Mullen, John.

PENNSYLVANIA

Sharon

American Steel Foundries.

South Bethlehem

Bethlehem Foundry & Machine Co.

Bethlehem Steel Co.

Swissvale

Union Switch & Signal Co.

Topton

Topton Foundry & Machine Co.

Waynesboro

Frick Co.

Gilbert, L. D., King Street.

Little, J. W., 9 Penn Street.

Williamsport

Hermance Machine Co.

West Chester

Sharpless Separator Co.

Wilkes-Barre

Vulcan Iron Works.

York

Farquhar, A. H., Co., Ltd.

Read Machinery Co., Inc.

York Mfg. Co.

RHODE ISLAND

Pawtucket

White, J. S., Co.

Providence

American & British Mfg. Co.

Barstow Stove Co.

Brown & Sharpe Mfg. Co.

Carpenter, Henry A., General Fire Extinguisher Co.

Colvin Foundry Co., General Fire Extinguisher Co.

New England Butt Co., The.

Saunders & Franklin.

TENNESSEE

Chattanooga

Casey-Hedges Co.

Cahill Iron Works.

Chattanooga Roofing & Foundry Co.

Ross-Meehan Foundry Co.

TENNESSEE

Clarksville

Clarksville Foundry & Machine Works.
Patch, A. H.

Lenoir City

Evans, G. S., Chemist Lenoir Car Works.

Maryville

McNaughton Grate Bar Co.

Nashville

Gray & Dudley Hardware Co.
Howell, Alfred E., Phillips & Buttorf Mfg. Co.
Phillips & Buttorf Mfg. Co.

South Pittsburg

Lodge Mfg. Co.

West Nashville

Cumberland Foundry & Mfg. Co.

TEXAS

Beaumont

Beaumont Iron Works Co.

Dallas

Dallas Foundry.

El Paso

Darbyshire-Harvie I. & M. Co.

Houston

Hartwell Iron Works.

Lufkin

Lufkin Foundry & Machine Co.

San Antonio

Alamo Iron Works.

UTAH

Provo

Provo Foundry & Machine Co.

VERMONT

Montpelier

Lane Mfg. Co.

St. Johnsbury

Fairbanks, E. & T., Co.

VIRGINIA

Pulaski

Pulaski Foundry & Machine Co.

VIRGINIA**Richmond**

Richmond Foundry & Mfg. Co., Inc.
Starke's Dixie Plow Works.

Roanoke

N. & W. R. R.
Virginia Coal, Iron & Coke Co.

WASHINGTON**Sedro Woolley**

Sedro Woolley Iron Works.

Spokane

Spokane Ornamental Iron & Wire Co.

Walla Walla

Gilbert Hunt Co.

WEST VIRGINIA**Fairmount**

Fairmount Mining Machinery Co.
Helwick Foundry Machine Co.

Piedmont

Piedmont Foundry & Machine Co.

Powellton

Mount Carbon Co.

Wheeling

Wheeling Molding & Foundry Co., Glass, James.

WISCONSIN**Appleton**

Valley Iron Works Co.

Beaver Dam

Malleable Iron Range Co.

Beloit

Fairbanks Morse & Co.
Berlin Machine Works.

Brillion

Brillion Iron Works.

Cedar Grove

Wisconsin Foundry & Steel Works.

DePere

Lawton, C. A., Co.

Grand Rapids

Grand Rapids Foundry Co.

Green Bay

Green Bay Iron & Brass Foundry.

WISCONSIN

LaCrosse

LaCrosse Plow Co.

Milwaukee

Nordberg Mfg. Co.

Chain Belt Co.

Falk Co.

Lindemann & Hoverson Co.

McLain, David, Goldsmith Bldg.

Prime Steel Co.

Sheriffs Mfg. Co.

Sterling Wheelbarrow Co.

Neenah

Bergstrom Stove Co.

Port Washington

Gilson Mfg. Co.

Racine

Belle City Malleable Iron Co.

Case, J. I., Plow Works.

Sheboygan

Kohler Co.

South Milwaukee

Bucyrus Co.

Waukesha

Waukesha Malleable Iron Co.

West Allis

Allis-Chalmers Mfg. Co.

Federal Malleable Co.

Canada**ALBERTA****Lethbridge**

Lethbridge Iron Works Co., Ltd.

BRITISH COLUMBIA**Vancouver**

Vancouver Engine Works, Ltd.

MANITOBA**Winnipeg**

Anthes Foundry, Ltd.

Western Steel & Iron Works.

CANADA

NEW BRUNSWICK

Moncton

Record Foundry & Machine Co.

St. John

Phoenix Foundry.

NOVA SCOTIA

Amherst

Amherst Foundry Co., Ltd.

ONTARIO

Aurora

Fleury's, J., Sons.

Bowmanville

Bowmanville Foundry Co.

Brantford

Cockshutt Plow Co.

Pratt & Letchwerth Co., Ltd.

Verity Plow Co.

Watrous Engine Co., Ltd.

Brockville

Smart, James, Mfg. Co.

Carlton Place

Findlay Bros.

Dundas

Bertram, John, & Sons, Ltd.

Fergus

Beatty Bros., Ltd.

Galt

Canada Machinery Corporation, Ltd.

Galt Malleable Iron Co.

Galt Stove & Furnace Co., Ltd.

Goldie & McCollough Co., Ltd.

McDougall, R., & Co., Ltd.

Guelph

International Malleable Iron Co., Ltd.

Taylor-Forbes Co., Ltd.

Hamilton

Sawyer-Massey Co., Ltd.

Morrow, J. G.

Kingston

Canadian Locomotive Co., Ltd.

CANADA

London

The McClary Mfg. Co.
White, George, & Sons Co., Ltd.

Midland

Haney, J. Bruce.

New Liskeard

Wali Iron Works, Ltd.

Oshawa

Ontario Malleable Iron Co.

Owen Sound

Canadian Malleable Iron Co.
Kennedy, Wm., & Sons, Ltd.

Preston

Clare, A. N. W.

Port Arthur

Woodside Bros.

Port Hope

Standard Ideal Co., Ltd.

St. Catherines

McKinnon Dash Co.

St. Marys

Maxwell, David, & Sons.

Sarnia

Goodison, J., Thresher Co., Ltd.

Smith's Falls

Frost & Wood Co., Ltd.
Smith Falls Malleable Iron Co.

Sudbury

Sudbury Const. & Mach. Co.

Toronto

Anthes Foundry, Ltd.
Canada Foundry Co.
Canadian Rumely Co.
Dodge Mfg. Co., Ltd.
Dominion Radiator Co., Ltd.
Ontario Wind Eng. & Pump Co.
Pease Foundry Co., Ltd.
Steel & Radiation, Ltd.
Tomlinson, T., & Son.
Verity Plow Co.

Walkerville

Kerr, H. O.

Welland

Morrison, Walter L.

CANADA**Weston**

Moffat, J. K.

Wingham

Western Foundry Co.

Woodstock

Stewart, Jas., Mfg. Co., Ltd.

QUEBEC**Montreal**

Best, T. J., 37 Milner Avenue.

Canadian Car & Foundry Co.

Canadian Steel Foundries.

King, Warden, Ltd.

Jenkins Bros., Ltd.

Quebec

Drolet, F. X., La Cie.

Desjardins, E. Compagnie.

England**Birmingham**

Turner, Prof. Thomas, The University.

London

Hadfield, Sir Robert A., 22 Carlton House Terrace.

Middlesborough

Stead, J. E., Queen's Terrace.

Kingswinford

Shaw, J., Cartref.

France**Paris**

Ronceray, E., 9-11 Rue Des Envierges.

Japan

Aikama, president, Tobata Imono Kaisha, Ltd.,

Tobata Machi, Tukuoka, Kew.

Korea**Chiksan, Chosen**

Elder, Robert B., Chiksan Mining Co.

Mexico**San Luis Potosi**

Hall, J. W., Apartado 198.

Summary

| Elected to Membership | No. of Members |
|---------------------------------------|-------------------|
| 1896..... | 60 |
| 1897..... | 9 |
| 1898..... | 13 |
| 1899..... | 7 |
| 1900..... | 23 |
| 1901..... | 10 |
| 1902..... | 10 |
| 1903..... | 10 |
| 1904..... | 15 |
| 1905..... | 17 |
| 1906..... | 42 |
| 1907..... | 114 |
| 1908..... | 85 |
| 1909..... | 48 |
| 1910..... | 49 |
| 1911..... | 57 |
| 1912..... | 96 |
| 1913..... | 37 |
| 1914 to date of publication..... | 124 |
| | <hr/> |
| Total membership January 1, 1915..... | 851 |



American Foundrymen's Association

Associate Members

- Adams, Chas. E., 342 West King St., York, Pa., York Foundry & Machine Co.
- Allen, L. H., Milwaukee, Wis., South Side Malleable Casting Co.
- Andrews, R. R., Anderson, Ind., The Anderson Tool Co.
- Angell, T. A., 247 Pacific Ave., Jersey City, N. J., Boynton Furnace Co.
- Babbitt, R. M., Kalamazoo, Mich., Kalamazoo Stove Co.
- Babcock, Jas. A., 715 W. Mansion St., Marshall, Mich., Marshall Furnace Co.
- Barnes, John, Kewanee, Ill., Kewanee Boiler Works.
- Bennett, T. B., St. Marys, Ont., D. Maxwell & Sons Co.
- Boetcher, M. E., Sidney, O., Philip Smith Mfg. Co.
- Boyd, C., St. Catherines, Ont., McKinnon Dash Co.
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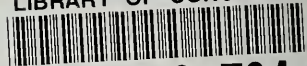
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